

Walter Deane,

29 Brewster St.,

Cambridge,

Massachusetts.

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1.

Sandy Cove.

Mass. Cohasset. Aug. 7th 1882.

I arrived here this noon with my sister Mary. We drove to my sister Mrs. Dexter's, who has a house about three minutes walk from the beach. I find a very different flora here in comparison with Shelburne N.H. Surrounding the house which stands right in the woods, quite concealed from the road by the trees, are the Tupelo, Sassafras, Holly, Red Cedar, Red Oak, White Oak, Red Maple, Pitch Pine, Arrow Wood, Poison Ivy, Sweet Pepperbush ~~Vitis~~ Labrusca ~~Smilax~~ rotundifolia (Green Brier), & of course many others I have not noticed yet. The Holly grows in great abundance and I saw one tree ^{6 in above the ground} about 10 in. in diameter at the base, and some 20 ft. high. The Sassafras grows abundantly also, but I have not seen any large trees. The Green Brier grows everywhere in profuse abundance. The Pepperbush is not yet in flower, but I analyzed it from a bud, not having seen it before. I saw several small Tupelo Trees but could find no fruit.

Ilex opaca.

I got some fruiting specimens here, no far from the house. They came from the large tree described above.

Salpola Kali.

I found this in great abundance on the beach just above high-water mark. Some specimens covered an area two or three feet in diameter.

Gaylussacia resinosa.

I found The Black Huckleberry in the woods near the house.

Gnaphalium uliginosum

Growing in a wood path near the house.

Cohasset. Mass. Aug 8th. 1882.

It has been an intensely hot day with very little breeze. I collected plants before bathing this A.M. and, after dinner walked to the village through a pleasant wood path where I found for the first time the Flowering Dogwood. I also saw a very good specimen of the Hop Hornbeam and I found the Witch Hazel

very abundant. The Downy False Fox-Glove I met frequently growing in the woods, very conspicuous with its bright yellow corolla. I found the Toad Flax abundant by the railway track and near the station I saw the *Euphorbia hypericifolia*.

Plantago maritima, var. *juncoides* -

I found this growing in the crevices of a large rock off the beach, surrounded by water at high tide.

Calicle Americana -

Growing in the sand on the beach.

Spiraea tomentosa.
Vaccinium corymbosum.
Smilax rotundifolia.
Sassafras officinale.
Vaccinium vacillans.
Baptisia tinctoria.

These species were all growing by or in the woods near the house.

Saponaria officinalis.

Growing by the roadside.

Sedum acre.

Growing abundantly over a large rock by the roadside in the village. It was quite mosslike in appearance.

4.

Linaria vulgaris.

Growing by the railway track near the station.

Cornus florida.

I found this Flowering Dogwood in the woods near the village. It is the first specimen I have seen in its native state. It has no fruit on it.

Tanacetum vulgare.

This was growing abundantly by the railway track near the station.

Cohasset, Mass. Aug. 9th. 1882.

An intensely hot day. Mercury ranging between 85° & 90°. I did a little collecting in the a.m. near the house. In the P.M. I walked over to Little Harbor and collected a number of plants whose habitat is near the salt water. I find the Red Cedar more abundant here than I ever saw it elsewhere. The *Gerardia* flower which I gathered this a.m. opens its flowers in the morning, and by afternoon the corolla is withered and detached from the receptacle. The time to collect the plant therefore is early in the morning as soon as the flower opens.

Bigelow in his "Florida Botanicus" says "The whole plant turns black in drying. I have not been able yet to find the Tupelo in fruit."

Nyssa multiflora.

I got a specimen with leaves in tufts from a tree about 20 ft in height. The specimen with alternate leaves came from a young shoot growing close by the former tree - Woods.

Persea flava.

Woods near the house.

Rhus typhina.

A fruiting specimen from field near the house. The Staghorn Sumach is very abundant here and assumes a height of at least 20 ft. I found two or three specimens of the *Rhus glabra* this A.M. in the woods near Little Harbor.

Polygonum Pennsylvanicum.

I found this plant growing in the sand on the beach a few feet above high water mark. Height about 2 ft. Stamens 6 or 7. Pistil two. Achene with concave sides. Siliques cylindrical, truncate, without a border, naked. Sept 2nd Mr. S. Watson has named this plant. The number of stamens is unimportant.

Spergularia media. (as found))
Salicornia herbacea.)

virginica.

Asteris patula, var. *hastata*.

Three species from the border of Little Harbor

Spergularia ^{*media*} ~~*salina*~~ (red. ^{smooth} ~~with~~ print)

This plant was growing with the *S. media* above.

Cakile Americana.

Euphorbia polygonifolia

These two species were growing on a stony beach
on Beach Rd.; just beyond the private bridge.

Cohasset. Mass. Aug. 10 - 1882.

It has been a quite comfortable day, though rather warm in the sun. I took a short stroll in the woods before bath but found nothing new. On the rocks by the beach where I went after dinner I found the Bear-Berry in great abundance. It was extensively trailing and formed matted beds on the rocks and patches of grass between. It was not more than 10 ft above high water mark.

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I also found near the same place a few small specimens of the *Rhus glabra*. It does not seem to be very common here, as I have only found it twice. I saw in the same place for the first time the Dwarf Sumach. The specimens were not more than 2 ft. high and I could find no fruit. The *Centa maculata* grows in the woods and by the road and I meet it quite frequently. I dug up several specimens by the road this afternoon and verified Bigelow's description in his "Florida Bostonensis".

The *Smilacina stellata* I found near the *Rhus copallina* and I identified it by its fruit. I noticed that it was the only one of our *Smilacinas* with blackish fruit.

Rhus copallina -

Among rocks by the beach. No fruit.

Smilacina stellata.

Fruiting specimens among rocks by the beach.

Smilax herbacea.

Fruiting specimen from woods near the house.

This is a very common plant here and I often find it growing with *Smilax rotundifolia*. Both have two tendrils at the base of the petioles.

Cicuta maculata.

Specimens from the roadside and woods near the house.

Arctostaphylos uva-ursi.

Fruiting specimens among rocks by the beach on a slope.

Carya porcina.

Growing among rocks on a hill by the beach

Cotasset. Meas. Aug 11-1882.

A comfortable day, though hot in the sun. I took a walk this morning on Beach St. and struck into a low field where I found the Tupelos abundant on the edge of the woods, trees 15 or 20 ft. high. In the center of the field, there stood a fine Tupelo, alone by itself. It was about 5 ft. in circumference ^{2 ft. above the ground} and 40 ft. high. Its branches were very horizontal, distinguishing it easily at a distance. I also found by the roadside some very good specimens of *Rhus copallina*, with panicles still in the bud. Between the house and the beach, I

found the Choke Berry (*Rum. verticillata*) growing
in some low ground by the road. The fruit is
quite fully developed. I noticed particularly
the dark glands along the upper surface of
the midrib of the leaves. On my morning
walk, after examining at least a dozen
Eupelms I found one tree about 15 ft. high
with fruit.

Rhus multiflora.

Fruiting specimens from a tree about 15 ft.
high, in a field.

Rhus verticillata var. *cryptocarpa*.

Fruiting specimen from low ground near the
house.

Carya alba.

Fruiting specimen from a large tree at least
a foot in diameter on the edge of a wood.

Helianthus divaricatus.

Specimens from the edge of a wood in an
open field near Little Harbor.

Cohasset - Mass. Aug. 12 - 1882.

A very comfortable day, the sun under the clouds most of the time. I took a walk this morning and gathered several specimens of plants. This afternoon I examined the Holly trees, comparing them with Emerson's description and found it very accurate.

Cornus florida.

Fruiting specimens from a tree about 12 ft. high on Beach St.

Suaeda maritima.

Archangelica Gmelini.

Ligusticum Scoticum.

Salicornia herbacea.

These 4 species were gathered by Little Harbor.

Smilacina racemosa.

Woods near Beach St. Fruit.

Cornus paniculata.

Fruiting specimens by the roadside.

Geranium Robertianum

I found these specimens growing on a

rock, in scarcely any soil, in the woods
near the house.

Xanthoxylum strumarium, var. *echinatum*.

It flowered in blossom. Growing in sand on
the beach.

Cohasset, Mass. Aug. 13-1882.

A cool, comfortable day. I took a walk
this afternoon as far as the harbor and gathered
a few plants.

Baptisia leucocarpa.

I found a specimen by the roadside near the
harbor in full flower and fruit.

Comarostaphylos alba.

Growing in the sand near the beach.

Artemisia strumarium.

Roadside close by the house. 3½ ft. high.

Juniperus communis.

This plant was growing by a salt marsh
at the head of Cohasset harbor.

Rhus glabra.

Fruiting specimen from the rocky hill by the
beach. Picked by Helen Dexter.

Cohasset. Mass Aug 14-1882.

A beautiful, cool day. As I went fishing this morning, I did not do any botanizing. I went down to the shore of Little Harbor an hour before supper. The *Statice Limonium*, *Suaeda maritima* *Salicornia herbacea* & *S. Virginica* grow there abundantly. I gathered a large bunch of *Statice* for Lucy. It lasts through the winter as a house decoration, but the corolla drops very soon, which detracts much from its beauty.

Anagallis arvensis.

I found a cluster of about a dozen of these plants growing on a stony beach at Little Harbor.

Tilia Americana.

Fruiting specimen from a tree between Beach Pt. & Little Harbor.

Quercus bicolor.

Fruiting specimens from a tree in a field near the house.

Cohasset, Mass. Aug. 15 1882.

A pleasant, but warm day. I spent an hour this morning going over my plants. Gathered a few before dinner. In the afternoon I took a walk with Helen and we found a new salt-marsh plant, *Pluchea camphorata*. We walked through some woods and home by the sea-shore.

Erigeron Canadense.

Roadside.

Spergula arvensis

Growing by the path near the house.

Juniperus Virginiana.

Fruiting specimen from a tree near the house.

Atriplex patula, var. *hastata*.

Salt-marsh on the coast.

Rhus glabra.

Fruiting specimen from a wood near the sea-shore.

Lappa officinalis.

Woods.

Pluchea camphorata.

I found this plant growing abundantly in

11.
a salt marsh near the water. The plants
were attractive at a distance on account
of their brilliant color.

Celastrus scandens -

I found a shrub of this species in fruit
in a wood consisting mainly of the *Pinus*
rigida. The shrub was not more than two
feet high.

Cohasset, Mass. Aug. 16 - 1882.

A rainy day, the first since my arrival
here. The shower held up in the afternoon
and I walked to the village. I found
a very pretty specimen of the Roxbury
Haw-worm by the roadside, twining about
a choke cherry tree. The fruit is just
beginning to turn yellow.

There is a very fine Holly tree growing
between the house and the road, sur-
rounded by other trees so that it escaped
my observation till lately. $3\frac{1}{2}$ ft from
the base, it measures 4 ft. - 1 in. in circum-
ference and its height is about 25 ft.

Cephalanthus occidentalis.

I found quite a cluster of these bushes in low ground close by the road on Beach Pt. They had largely gone to fruit. I saw but one head of flowers which I gathered.

Peperomia catana.

I gathered this Catnip by the roadside on Beach Pt. where it grows in great abundance.

Cohasset. Mass. Aug. 17 - 1882.

A very warm day, with a dense Thunder shower in the afternoon, which cooled the air somewhat. I find the Buckthorn and Roping Wapunk very abundant about here. The Blitum is just bursting into flower, and is growing profusely in the woods.

Polygonatum biflorum.

Fruiting Specimens growing among the rocks near the mouth of the Harbor.

Lycopodium complanatum, var. *cinereum*.

Roadside.

Asplenium quinquefolium.

Fruiting specimen from the woods, near the house. I find that the statement that each leaf has 5 angles, has many exceptions. See Aug. 24th.

Pteris verticillata.

Fruiting specimens growing near the house. The Black Alder is very abundant here.

Galea nitens.

I found a few specimens of this plant growing in the gravel, close by the railway track near the station. This plant is scarce in Essex Co. See "R. H. S. Flower of Essex Co."

Asplenium innatum, var. *pulchrum*, Pers.

I found this plant in fruit and flower near the railway station.

Cohasset, Mass. Aug. 18 - 1882.

A cool, bright day. In afternoon I took my wire-net, walked through the village to the railway station and sta-

nized for an hour or so along the railway
track.

Vaccinium macrocarpon

I found a patch of *Prunella* growing in
a wet field near the track.

Cassia nictitans

The *Wick* *Prunella* Plant grows abundantly
near the station. I walked some distance
along the track, but did not see any more of
it.

Cypripedium

Field near the station.

Vitis Labrusca

A specimen without fruit. This vine was
growing properly on rocks close to the railway
track.

Polmonaria virginiana.

By the railway track.

Ranunculus acris

Field near the station

Sagittaria variabilis - var. *latifolia*.

Wet place near the station.

Halimolobos

This plant was growing abundantly on the

10.
border of a ditch near the station.
Thalictrum Canadense.

I found a single specimen in a field
near the station.

Cohasset. Mass. Aug. 17-1882.

A very clear, cool day. This morning
I took a walk through the woods near
the mouth of the harbor and gathered
a number of plants in my own press.
I took a number of out^h presses this after-
noon.

Xanthium strumarium. var. *echinatum*.

fruiting specimens from a salt marsh
not far from the beach.

Erechtia canphorata.

This plant grows abundantly in the
salt marsh not far from the beach.

Eleocharis acicularis.

I gathered these specimens from the
edge of the woods near the mouth of
the harbor. The plant is now in full
flower everywhere.

Rhus copallina.

Woods near the shore.

Fraxinus pedunculata.

Path through the woods leading to the village. A clump of about a dozen plants were growing close together.

Polygonum aviculare.

Roadside.

Cochasset, Mass. Aug. 20, 1912.

A beautiful, cool day. This afternoon, George, Helen, May & I took a walk of some 5 miles into Scituate over the bridge at the head of the harbor and back into Cohasset more to the westward. The country is looking beautiful and I never had so luxuriant a growth of vegetation as I observed to-day and have noticed here before. The eye can penetrate but a short distance through the dense undergrowth where nature has been undisturbed. The Wild Grape (*Vitis Labrusca*) is very abundant everywhere, running over trees and bushes and forming a dense canopy. The forest is interspersed with barren, rocky hills, where the Red

Under support a rather straggly growth, covered
 over with their black beaver which are rendered
 more conspicuous to the eye from the light
 bloom which cloths them. In Peituate, I
 passed two *Lycamorus* (*Platanus occidentalis*),
 the first I have met with here.

Sedum Telephium.

Roadside, Cohasset, at the head of the Lake.
Britannia avenue.

Roadside, Cohasset, at the head of the Lake.
 The Canada Thistle is almost past flower-
 ing now.

Rumex crispus.

I found a few stalks of the Black Plantain
 in Peituate, growing on the roadside by a
 rocky wall.

For. frutescens.

Roadside, close by a large salt marsh, in
 Peituate.

Hieracium scabrum.

Roadside, Peituate.

Trifolium canadense.

I got these specimens in Peituate,
 near the railway station, growing on rocks

by a brook. The Hemp Net was growing
exquisitely on these rocks, completely cov-
ering them from view, and was densely covered
with flowers, making a most beautiful sight
with the brook running close beside them.
In that distance farther on, I saw the same
plant, covering bushes and low trees, hanging
from them in long festoons. I have never
seen it growing so profusely.

Vitis Labrusca.

Fruiting specimens, massive, North Scituate.

Lobelia cardinalis.

Ext. frs., growing on South Scituate, be-
tween Scituate and Cohasset.

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Cohasset, Mass. Aug. 21-1882.

A beautiful, cool day. I took a walk  
this morning over Beach Island, round Little  
Harbor and home by the Liberator Road & Beach  
St. I filled my Botanical box with specimens  
of which the *Hypericum* *bartramii* & *Androsace*  
*umbellata* were new to me. I saw by the  
roadside several specimens of *Eleocharis* *acicularis*.



which I found in Wells, the latter part  
of last July and have not noticed since.  
I saw some fine *Thrivestrum dichotomum*  
and a specimen of *Cyperus Canadensis*, 5 ft.  
high. This afternoon I visited a plant I  
have noticed in Wells for a few days since  
and was disappointed to find it cut down  
by the moment. I took the wilted frag-  
ments home and found it to be the  
*Brachites linearifolia*. It was in a nice field.  
*Hypericum* *perforatum*.

This plant was growing abundantly by the  
roadside, just north of the Little Harbor.  
It was in full flower and fruit.

*Polygala virginica*.  
*Linum Canadensis*.  
*Cilium purpureum*.

These 3 species were growing by the roadside  
just north of the Little Harbor.

*Onoclea sensibilis*.

I found a clump of the Roman Threadweed by  
the roadside, just north of Little Harbor, with  
the spikes all <sup>deformed</sup> ~~being~~ <sup>purple</sup> flowers. It was  
growing with the ordinary kind and was



inspiration from the darker side of the  
spike. - Long says "rarely the spikes have  
all fertile heads" - <sup>Mar. 30 - 1853</sup> Dr Gray calls it a monstrosity.

*Wiburnum fruticosum* -

See above.

*Verbena verticillata* -

I found this plant by the water on  
Beach St.

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Cobleskill, N.Y. - Aug 22 - 1852 -

A clear day, rather warm at noon. This  
morning I started off with Mother and my wife  
for a walk to Lily Pond. On the way  
I found the *Verbena* and the *Beach Plum*  
on Beach St. The latter consisted of a fine  
straggling bush, averaging 7 ft. in height, with  
a few shoots, rising some 10 ft. higher. They  
were growing on a dry bank by a stone wall.  
Lily Pond is a very pretty sheet of water, a  
little less than half a mile in diameter and  
surrounded by trees, although ap-  
parently very little open shore. The south-  
western corner of the pond, which is water



24.  
abundant in the white water lily, *Nymphaea odorata*, and we gathered a large  
bundle of them by means of a net which  
we had of a small boy. I collected  
a number of them by the edge of the pond.

We reached home before dinner.

*Rubus hispidus*. Canadensis.

*Hypericum Canadense*;

*Hypoxis erecta*.

I gathered these plants on the roadside  
on Pond St.

*Pontederia cordata*.

Border of Lilly Pond. The Pickerel Weed  
was growing very thickly on the border of  
the pond and was in full flower, making  
a beautiful patch of blue.

*Cuscuta Gronovii*.

*Hypericum mutilum*.

*Risaea verticillata*.

Shore of Lilly Pond.

*Nymphaea odorata*.

I gathered these from Lilly Pond. I put  
into press three Lilies and three leaves.  
The leaves curl quickly when taken out



of the water and should be put into jars  
immediately.

*Gerardia tenuifolia*.

I found a few specimens of this plant  
growing by the roadside on the Fiske  
Path through the woods, from Sandy Cove  
to the Village.

Cohasset. Mass. Aug. 23-1882.

A beautiful day, but quite hot. We  
all made an excursion to Plymouth this  
morning, where we spent the day, returning  
home in time for supper. The prevailing  
trees by the railway track between here  
and Plymouth were the White Birch,  
White & Pitch Pine and various kinds of Oak.  
After sight-seeing for some hours we went  
up a prominent hill and landed in a  
blow-off. Then Helen & I went down  
the back of the hill into a field where there  
were some great holes full of water. We  
found a number of water-lilies: among them  
the *Polygala auriculata* & *Rhexia virginica*, both.



21.  
of which are new to me. The Polygala was  
growing very abundantly amongst the grasses.  
I gathered all the *Rhexia* I saw; it made a  
brilliant show with its purple petals &  
yellow anthers. I found my way-pose on  
an expedition of this sort, absolutely in-  
dispensable. The following are the plants  
I gathered in

*Plumoth. Mass.*

*Polygala curvica.*

*Rhexia Virginica.*

*Epilobium solanum.*

*Melissa verticillata.*

*Epilobium palustre*, var. *linearis* (Sept. 2<sup>nd</sup>, S. Watson, fide).

The above were gathered in a low meadow  
at the foot of Monument Hill.

*Menyanthes canadensis.*

Monument Hill.

*Physalis orientalis* (Sept. 2<sup>nd</sup>, fide S. Watson).

Physalis near the railway station

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27

Cohasset, Mass. Aug. 24 - 1882.

A warm day, with occasional rain. I did not collect any plants to-day, but I went over my collection and found very few ready to remove. It is very hard to dry them here, I presume, on account of the moisture in the atmosphere, though it has been remarkably dry here for the past three weeks. The *Chenopodium guineense*, which I put into press Aug. 17, was ruined, as every leaf, in drying, had separated from the stem, as well as the fruit stalk.

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Cohasset, Mass. Aug 25 - 1882.

A clear, cool day. I found the Fire weed (*Erechtites hieracifolia*) in abundance in a clearing, near the road opposite the beach. *Helianthus strumosus*.  
Near the roadside.

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Cohasset. Mass. Aug. 20. 1882.

A clear, cool day, breezy day - This morning I did some collecting near Littleton's new, unfinished house, opposite the beach. In the afternoon, my mother, George & I walked to Handkerchief Beach, across Beach Rd. and over the Jerusalem Road. I noted particularly the stunted, gnarled Red Cedars which Houston speaks of as prostrate and deformed from being exposed to the Easterly winds and storms. I found in one place a large clump of Beach Plums and all along the road at intervals I noticed the Cotton Whistle growing by the roadside. The views along the Jerusalem Road were magnificent. We took the train to the Pemberton and I observed the usual plants growing in the sand by the beach. The *Prickly Pear* (*Cylindropuntia* *opuntia*), was covering the rocks & hillside near the Pemberton and was in full flower. We took the cars back to Cohasset. As the car left Cohasset, where we changed cars, I found the



*Erechtites hieracifolia* abundant. I saw  
one stalk and found it 7 ft. high, and  
1 in. in diameter at the base. I also saw a  
specimen of *Erigeron Canadensis*, 6 ft. high.

*Rubus Canadensis* - *lucidus*.

*Erechtites hieracifolia*.

*Gerardia flava*.

*Inaphalium polycephalum*.

*Raphanus raphanistrum*.

Near the road, opposite the beach.

*Xanthium strumarium* - var. *ecthinatum*.

Fruiting specimen from the beach.

*Eupatorium purpureum*.

By the road leading to the beach, where it  
grows abundantly by the Old Lathrop House.

*Anagallis arvensis*.

A small specimen in flower in the  
grass near the house.

*Melilotus officinalis*.

On the rocks, near the Bombardment, in Hall.

There was growing among the stones.

*Onopordon acanthium*.

By the roadside in Hall, on the way to  
the Antacket Beach, at the foot of Green Hill.



26  
Cohasset, Mass. Aug 27. 1882

A clear, cool day, sky rather cloudy.  
This morning, I went over most of my  
plants in the press and removed quite a  
number. This afternoon, Fergie & I went  
on to the Glades in a boat and from  
there walked home, round the head of the  
harbor. It was very low tide so we saw  
near the Glades and we could see the rocks  
covered with Irish Moss (*Chondrus crispus*),  
conspicuous for its delicate green color, con-  
trasting with the darker color of the other  
sea Moss. It was a beautiful walk through  
a flat country. The first part of the way  
was close by the sea, and the Red Berries  
which grow in great abundance, had that  
lonely, knotted appearance which exposure  
to the winds & storms from the sea gives them.  
They were low in stature and their branches  
were all growing away from the sea. Some  
of them reminded me of the Quercus. The  
Beach Plum was frequent near the shore  
and in one place I saw some strangely



deformed specimens of the Basswood. We passed Scituate Beach and then struck inland coming on a hill where the Symphoricarpos polycephalum was growing very abundantly. Just before crossing the line from Scituate to the latter, I noticed some fine Trifolium in a low meadow, about 1/2 m. from the road. They were growing in a cluster under the shelter of a high rock, and, though not especially large, the largest being not more than 1 ft. in diameter near the base, they had a splendid growth of branches, which were very long and lay close together, and had a very neat appearance, making them a noticeable feature in the landscape.

### Leonurus Cardiaca -

I picked this specimen by the roadside in Scituate, not far from the Glades. The middle lobe of the lower lip is entire. In regard to that point, Gray in his Manual says that the middle lobe of the lower lip is "invariably heart-shaped". Bigelow in his Florida Bostonensis says "Lower lip three-parted, with the middle segment undivided. I do not



understand the discrepancy - Sept 2<sup>nd</sup> Dr. S. H. H. Tson  
examined a flower of the plant and the lobe in question  
is 180. So that fact must be variable.

*Polygonum Hydropiper.*

I gathered this plant in a wet place by  
the road, in Scituate near the Glades.

Cohasset - Mass. Aug. 28 - 1882.

A clear, cool day. Fished and bathed  
this morning - This P.M. I found some  
Thimbleberry on Beach Lt.

*Cilium discolor.*

Roadside by Little Harbor.

*Rhus copallina.*

Fruiting specimens from the roadside, on  
Beach Lt.

*Gentiana (Paponaria) var. Cincensis.*

These specimens were picked at Triggs, Me.  
by Ella Lord, my cousin, and were found  
growing in a wet place - She had only  
found them in that one place -

Sept-2<sup>nd</sup>. I have compared these specimens with  
those at the Gardens and I have named them  
as follows.



Cohasset, Mass. Aug. 29-1882.

A clear, warm day. I spent the day in visiting Thicket's Light and so had no chance for botanizing. In the P.M. I packed up my plants ready to head to Cambridge.

Cohasset, Mass. Aug. 30-1882. 5 P.M.

A clear, comfortable day. This A.M. I went to The village, besides finishing packing my plants and junk - I prepared to starting for Cambridge, this P.M. I have Mr. Nelson's son Hottel and a press. He is to collect certain plants for me.

*Asclepias incarnata* - var. *pulchra*, Pers.

A fruiting specimen gathered near the railway station.

*Rhus nictitans*.

A fruiting specimen gathered near the railway station.



In the afternoon, on my way home  
in Cohasset, I received a letter from  
"The Coast" I have mounted the new  
house, occupied by Geo. Dexter, on the road  
a little opposite and further to Sandy  
Grove Beach.

In returning to "The Coast" I have stopped  
at Sandy Grove Beach.

I have collected in Cohasset, including  
a few in Scituate & Hull, 112 different  
species of insects. A few species are also  
from Plymouth.



1882

... the ... last-  
... Cambridge.  
... there's an  
... 5. trying  
... to be  
... and  
winter. Yesterday, ...  
... collected ...  
... Garden ...  
... kind ...  
... This evening ...  
... who gave me ...  
... Rhodiola, ...  
August 20th at ...  
... overcoming ...  
... Lead. ...  
... working line ...  
... Sandwich. ...  
... tomorrow ...  
... Walton ...











7  
X *rhilica*

" Carl's Claus.

.. *Willenii*.

*Implicarbaea monocera*

*Cratris scariosa.*

*Monarda punctata.*

*E. A. via corollata.*

Growing in Sandy Soil, by the roadside.  
Several specimens of this plant were



Growing on this place.  
*Oxyechthrum lanceolatum*.  
Growing in more open places, by the  
*Thymus* *sp.*  
*Asperula* *sp.*  
*Asperula* *sp.*

*Lactuca* *sp.*  
*Amaranthus* *sp.*  
*Trachelantia* *sp.*

Chicago. Ill. Sept. 8<sup>th</sup> 1882.

A clear cool day. This A.M. Margie  
Mrs. Barnes, Miss Mai, Rollie & I went to  
the lake. The weather was very pleasant  
and the water was cool. We had a  
very good time and saw many  
beautiful fish. The children were  
very happy and we all enjoyed  
the trip very much.



*[Faint handwritten notes, possibly bleed-through from the reverse side.]*

*Lepachys pinnata*



near the N.W. corner in  
Man. Ill. a short way from the  
town

Chicago, Ill. Sept. 9<sup>th</sup> 1882.

I have not yet  
identified a few specimens gathered before  
and changed the labels of my plants  
in my collection. I have  
also found some new ones  
in the garden.

Vacant lots and unfinished sidewalks  
are full of weeds.

generally, rank with weeds from  
among which are the Hemp (Cannabis  
sativa) and the (C. indica)  
var. echinatum. The  
height is 10 ft., growing to the top.



native.

Growing in a yard on (State St. near Wabash St.)

unium. var. com.

The sidewalk and fence,

St. and Walton St.

Growing in a yard on (State St. near Wabash St.)

St. and Walton St. By the sidewalk, 112

Chicago Ill. Sept 10<sup>th</sup> 1882.

A clear cool day. Went to the  
 museum at 11<sup>th</sup> St. P.M. with  
 Maria & I. Drove to South & Oak St.  
 a very beautiful view of the  
 beauties of the city.

One view of the South of the city.  
 A very beautiful view of the  
 city and an unusual sight to see.

Notentia

in the city, near the city.



Chicago. Ill. Sept 11<sup>th</sup> 1882.

A clear, cool day. In the P.M. I  
visited the Exposition. In the P.M. I  
went up the tower at the  
and then went over to the West Side  
at Lincoln St. We walked through  
Union Park on the way back. In  
the evening we went to the theatre  
and saw a performance.

Rowing by the lake on the lake at  
Park. This is *P. erectum* L. Vide Contributions to  
Arner Bot. III. by S. Watson for Nov. 1873.

Chicago. Ill. Sept. 12<sup>th</sup>, 1882.

A clear, cool day. This A.M. we all  
had our tentype taken in group and I  
sat for my photograph. I then visited a  
very large Century Plant which was on  
exhibition in the City. The leaves were  
at least 8 ft. long. It was not in flower  
as I expected it would be. In the P.M.  
Rollie & I visited the Sea Lions in Lin-  
coln Park and saw them feed and we



watched their movements for a long time. They belong to the family Otariidae [from the principal genus Otaria, wrajo's "distinctly eared"] and are the Eumetopias Californica, a genus restricted to the North Pacific. Their agility and speed in the water are remarkable.

We also went over and identified some plants which Rollie collected for me in the beginning of the summer. The following is a list -

A list of plants collected in Lake View. Ill. July 8<sup>th</sup> 1882, by R. W. Larnabee.

*Asclepias phytolaccoides.*

Moist copse.

*Asclepias tuberosa.*

Dry slope.

*Trigonum ambibium*, var. *repens*.

Stagnant pool.

*Utricularia vulgaris.*

Ditch.

*Lithospermum* sp.

Dry sandy field.



*Chrysopsis, etc.*

*remone cypinaria*

*Guthorbia corollata*

Roadside.

*amunculus m*

Growing in water, by the roadside.

*Rhus aromatica*.

*Croptularia nodosa*.

*Scirpus triloba*.

*Nobelia spicata*.

*Equisetum hyemale*.

This Scouring Rush was gathered

in the field in the field.

Chicago, Ill. Sept. 12<sup>th</sup>, 1882.

A pleasant day with the sun  
all the time. The weather was  
just what we needed for a  
travelling party. We found them in the  
city. I saw for the first time  
a number of them among them.



*Conoclinium*, which was a common  
plant in the woods.

*Asplenium uniflorum*

*Asplenium*

*Asplenium*

*Asplenium*

*Asplenium*

*Asplenium*

*Asplenium*

*Asplenium*

*Asplenium*

*Asplenium*

*Asplenium*

The 9 species above were gathered in

June 14, 1852.

At 10 a.m. I went to the  
down town. In the P.M. I went and

put my plants and got them ready  
on packers. I shall check them to  
position in a box. I did no collecting to-  
day.



7/15

|    |    |    |
|----|----|----|
| l. | ae | on |
| c  | (  |    |
| rm | T  | (  |
| l  |    |    |
| pr | pl | l  |
| cl | f  | 2  |
| is |    |    |
|    | -  |    |

Handwritten notes and symbols at the bottom of the page, including various marks and characters.



and all the other here, I was under  
a. George Greig. Queen's Park, I recd.  
at 1/2 m. from the lake.

The weather, yesterday and to-day, has

at 17th. 18

A cool day, with the sun under  
a cloud. This A.M. I took a walk  
through the park where the rees.  
are growing naturally. I noticed the  
*Quercus imbra*, *Quercus alba*, *Ulmus*  
*brum*, *Ustria Virginia*. In the  
P.M. I took a walk with Edward.  
We went along Bloor St. The Northern  
Limit of the City and I saw some  
very handsome residences. I noticed  
that all the weeds growing by the  
roadside are the same as ours at  
home, with the exception of one, the











the 1st.

these specimens from a shrub  
in the 3rd dist., leading off from  
Port M. Niagara Falls, N.Y. It was  
very fine, the

Can. wild, Mass. Sept. 21<sup>st</sup> - 1852.

The 1st Toronto on the 1st  
and reached home safely in the  
evening of the next day, Sept. 20<sup>th</sup>, after  
a tiresome journey. The country in the western  
part of Mass. and N.Y. mountains and  
beautiful. The trees are  
mostly the same as the 1st  
in N.Y.

- |                            |                            |
|----------------------------|----------------------------|
| <i>Pinus strobus</i>       | <i>Pinus strobus</i>       |
| <i>Larix laricina</i>      | <i>Larix laricina</i>      |
| <i>Abies balsamifera</i>   | <i>Abies balsamifera</i>   |
| <i>Thuja occidentalis</i>  | <i>Thuja occidentalis</i>  |
| <i>Salix</i>               | <i>Salix</i>               |
| <i>Sambucus canadensis</i> | <i>Sambucus canadensis</i> |



My plants had arrived safely  
 in Chicago and were almost all  
 now we have been out, arranging  
 in at the School and my Botanical  
 lecturing for the season is doubtless  
 over.

Cambridge Mass. Sept. 24<sup>th</sup>, 1882.

I finished poisoning my tobacco  
 plants to-day. Besides about half  
 those I brought from Chicago, Ill.  
*Acalypha Virginica*.

I found this plant growing freely back  
 of the barn, at 10 P.M. at 3<sup>rd</sup>. Found  
 live.

Cambridge Mass. Sept. 30<sup>th</sup> 1882.

Last evening I poisoned the plants  
 my brother George brought me from  
 Boston. This A.M. I identified a few  
 doubtful specimens at the Garden  
 and saw there Prof. Goodell who said



just returned from Europe. I had a  
pleasant conversation with him. Mr. Gray  
& I walked out the Harbor on Oct. 1st.

Oct. 1st. -

I got the colt in a net which  
which Barber St. is being laid out between Con-  
cord Ave. & Buckingham St. It grows very a-  
bundantly in that place.

Rollie Lander brought me the following  
specimens, gathered in "Lake Vic," 4th. Sept. 21  
1882.

*Portulaca alba* - *Phelone glabra* - *Equisetum*  
*variegatum*. The plants are growing on  
moist ground in underbrush. Gray calls it rare.

Concord, Mass. Oct. 1st 1882.

11th. P.M. I went to the plant Helen  
Weyler brought me from Colchester - Mass.  
The following is a list -

- |                                |                    |
|--------------------------------|--------------------|
| <i>Ambrosia artemisiifolia</i> | } Sept. 21. 1882.  |
| <i>P. sp.</i>                  |                    |
| <i>Berberis vulgaris</i>       | Sept. 21. 1882.    |
| <i>Nyssa multiflora</i>        | Sept. 8-9th. 1882. |



*Hypericum ascyron* }  
*Hypericum catharticum* }  
*Hypericum perforatum* }  
*Hypericum linariifolium* }  
*Hypericum montanum* }  
*Hypericum multicaule* }  
*Hypericum officinale* }

This P.M. Rolie L. & I. took a walk  
 through Somerville to Tufts College. I  
 never saw nature looking so green and  
 fresh.

*Centaurea nigra*.

Growing in West Somerville, Mass. near  
 Tufts College. I found the flowers  
 growing abundantly in the fields and by  
 the roadside near T. College.

Cambridge Mass. Oct. 5<sup>th</sup> 1882.

This P.M. I went out to Jamaica  
 Plain where George & I visited the Bazaar  
 Institute and the Lowell Laboratory.



were ~~collected~~ collected in over this. I  
saw *Helmodium gyrans* in the Green-  
house. The small Cacti were not moving at  
the time.

*Pin. Banksiana.*

This specimen came from a tree about 10  
feet high in the Arboretum.

Cambridge, Mass. Oct. 21<sup>st</sup> 1882.

A list of the different species of plants  
gathered by me this year.

|                             |            |
|-----------------------------|------------|
| From Apr. 7 -- to -- July 1 | 112        |
| " July 1 -- " 29            | 163        |
| " " 29 " Aug. 7             | 30         |
| " Aug. 7 " 31               | 112        |
| " " 3 " Sept. 19            | 39         |
| " Sept. 19 " Oct. 6         | 4          |
|                             | <u>460</u> |

Each number above represents the number of  
species gathered between the two dates preceding  
For the locality, see Note Books. I gathered  
very few of the same species in different lo-  
calities, so that the sum total is correct nearly.



I have poisoned and labelled most all  
my plants. To-day I began to mount  
them. I have mounted

80 sheets -- 120 plants.

---

Cambridge, Mass Oct. 23<sup>rd</sup> 1882.

This evening I mounted

31 sheets -- 38 plants.

---

Cambridge, Mass. Oct. 24<sup>th</sup> 1882.

This evening I mounted

43 sheets -- 70 plants.

---

Cambridge, Mass. Oct. 26<sup>th</sup> 1882.

This evening I mounted

40 sheets -- 58 plants.

---

Cambridge, Mass. Oct. 28<sup>th</sup> 1882.

*Celtis occidentalis*.

Bond St., inside Mrs. J. Pearson's Lot.



Today I mounted

103 Sheets - 130 Specimens.

In the record for the past week, substitute  
Specimens for plants, as, sometimes, dif-  
ferent Specimens belong to the same plant.

---

Cambridge, Mass. Oct. 30<sup>th</sup> 1882

<sup>41</sup>  
This evening I mounted

21 Sheets - 30 Specimens.

---

Cambridge, Mass. Nov. 3<sup>rd</sup> 1882.

This evening I mounted

39 Sheets - 58 Specimens.

---

Cambridge, Mass. Nov. 4<sup>th</sup> 1882.

This P.M. I mounted

41 Sheets - 65 Specimens.

---

Cambridge Mass. Nov. 6<sup>th</sup> 1882.

This P.M. I mounted

60 Sheets - 78 Specimens.

---



Cambridge, Mass. Nov. 6<sup>th</sup>. 1882

This P.M. & evening I mounted  
58 Sheets - 96 Specimens.

---

" " Nov. 7<sup>th</sup> 1882.  
This Evening I mounted  
40 Sheets - 65 Specimens

---

" " Nov. 10<sup>th</sup> 1882  
This evening I mounted  
16 Sheets - 18 Specimens.

---

" " Nov. 12<sup>th</sup> 1882  
This evening I mounted  
32 Sheets - 54 Specimens

---

" " Nov. 13<sup>th</sup> 1882.  
This evening I mounted  
30 Sheets - 55 Specimens.

---

" " Nov. 17<sup>th</sup> 1882.  
This P.M. & evening I mounted  
49 Sheets - 126 Specimens.



Samuel J. May

Nov. 28<sup>th</sup> 1882.

This evening I mounted

3 sheets 7 specimens

---

Dec. 24<sup>th</sup> 1882

Today

I mounted

11 sheets 31 specimens

Dec. 28<sup>th</sup> 1882.

Today I mounted

6 sheets - 12 specimens

---



U

George, 1852, Dec 10th, 1852

Dear Sir,  
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter of the

of the same, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,  
Yours, &c.  
J. J. [illegible]



Colorado plants collected in the Spring of 1872 at Colorado Springs

Wm Brewster & J. A. Thompson

*Combalaria* Pursh.

*Soydalis aurea*, L.

*Elicaria montana*, W.

*Simum asperum* HB. var. Clarke

*Acer glabrum*, Torr.

*Rumex demissa*, Walp.

*compactus*.

*Pectostaphylos Uva-ursi*, (T. & G.)

*Montenia alpina*



*occidentalis* *Stromb.*

(*Fide W. Deane*)



These plants are all in  
my herbarium - J.W.D.



Cambridge, Mass. Feb. 17 - 1883.

Dr. Asa Gray has been over and identified the following genera which belong to my collection. He did some of them to-day and the rest recently. I had identified them all myself and felt quite sure in regard to most of them. All plants in my Herbarium which Dr. Gray or Mr. S. Watson have identified are marked (Fide A. Gray) or (Fide S. Watson).

- ~ Potentilla
- ~ Helianthus
- ~ Coreopsis
- ~ Aster
- ~ Solidago
- ~ Ribes
- ~ Viola - except those collected in 1882 -

Cambridge, Mass. Feb. 19 - 1883.

Dr. Asa Gray identified to-day the following genus belonging to my collection

- ~ Vaccinium -

The Vaccinium which I collected



on Mr. Mch. 11 July 20-1882, and call *V.*  
*caespitosum* from the structure of the flower  
Dr. Gray says is *V. uliginosum* with  
pentamerous flowers an uncommon form.

Cambridge, Mass. Feb. 20-1883.

Dr. Asa Gray identified today my Genera,  
~ *Erigeron* ~

I gave Dr. Gray some *Vaccinium*  
*uliginosum* with pentamerous flowers which  
he put in the Herbarium ~

Cambridge, Mass. Feb. 21-1883.

Dr. Asa Gray identified today my Genera,  
~ *Inaphalium*  
~ *Oniscus* (*Birsium*)



10.  
Cambridge Mass Feb 23 - 1883.

My brother George has sent me the following plants from California, which I have identified at the Bot. Gardens with Mr. S. Watson's assistance. I shall put them in my collection.

*Hosackia glabra* - Torrey.

*Lathyrus vestitus* - Nutt.

*Sanicula erctopoides* - Hook. & Arn.

*Bigelovia Menziesii* - Gray.

*Stephanomeria minor* - Nutt.

*Podocathion Madra* - Nutt. var. *brevipolium*.

*Arctostaphylos pungens* - Hook.

*Polanum Lanti* - Gray.

---

Cambridge Mass Mar. 2 - 1883.

Dr. Gray identified to-day my genus  
— *Aralia* —

---



Cambridge. Mass. Mar. 5-1883.

Dr. Gray identified to-day my Genus  
Galium.

---

Cambridge. Mass. Mar. 7-1883.

Dr. Gray gave me today a new species of  
Viola from Washington Territory. Joseph  
& Thos. J. Howell are two brothers, florist  
in Oregon. They have been studying  
this violet for some time past, over a  
space 50 miles in extent and have finally  
settled it to be a new species. They  
name it Viola glaberrima, Howell.

---

Cambridge Mass. Mar. 12-1883.

Dr. Gray identified to-day my Genus  
Eupatorium.

---



Cambridge, Mass. Mar. 15-1883.

Dr. Gray identified to-day my Genus

*Sycon*

*apronaia*

---

Cambridge, Mass. Mar. 17-1883.

Dr. Gray identified to-day my Genus

*Anychia*

---

Cambridge, Mass. Mar. 30-1883.

Dr. Gray identified to-day my Genus

*Ruellia*.



Cambridge. Apr. 12<sup>th</sup>. 1883.

*Bidens cernua*. L.

This P.M. at the Bot. Gard. I obtained this very curious little flowering seedlings Mr. Jones Dr. Goodale's assistant gathered some weeks ago. Some fresh water algae at Fresh Pond and put them in a glass vessel of water. Within a few days, some seedlings sprang up through the algae, and some of them flowered between the cotyledons, throwing up no other leaves. Mr. Bailey took a specimen this Morn to Dr. Gray who pronounced it a *Bidens cernua*. He said you can never tell what an annual will do. If you take great care of it, it may reach a large size before flowering. Starve it and it may flower while a young seedling. I took <sup>some</sup> 2 specimens home for curiosity.



Cambridge, Mass. Apr 15 1883

*Acer dasycarpum* -

This P.M. I gathered these specimens at Newton, from two small trees on my cousin, Rob Lord's place. The White Maple is in flower everywhere now.

---

Cambridge Mass Apr. 16 - 1883.

A warm, pleasant day. The buds are swelling. I have no time to go into the country to see what is up, but at the B.C. Soc. this P.M. I saw *Berones*, *Salicathus*, *Squills* & *Lycopodium* in fruit. I saw *Fym phocarpus* which had been brought in to the Gardens for analysis, so that of course, it is now up.

*Lycopodium dendroideum* -

This fruiting specimen, Mr Bailey gave me from the Gardens.

---



Cambridge, Mass. Apr. 18-1883.

*Ulmus Americana.*

This P.M. I put some *Ulmus* in  
press from Mr. Eardley's yard.

Cambridge, Mass. Apr. 21-1883.

This P.M. I took a drive with Mr.  
L. D. Bailey through Belmont & Haverly.  
It is the first time that I have driven  
into the country this Spring. Nature is  
very backward and only the first signs  
of vegetation are visible. The Elms are  
in flower with the White & Red Maple  
Bouquins & Alder and the young green  
leaves of various herbs are just peep-  
ing up from the ground. Still it was  
plain that Spring had opened and that  
before long the plant world would  
again resume its way. Mr. Bailey  
who comes from Michigan and is well  
familiar with our Flora, <sup>and consequently</sup> was very  
much pleased with what he saw.



*Ulmus Americana.*

This tree was one of the large  
ones along the roadside in Bel-  
mont by Payson's place. It was  
well in flower; corner of Belmont & School Sts.  
*Penus rigida.*

Dry hillside in Belmont off Forest St.  
*Juniperus Virginiana*

I pulled up a small tree but a  
few inches high. So many small ones  
as small and even smaller than  
this are common on our hill sides  
growing amongst the larger ones, that  
I press this as a specimen. <sup>Dry hillside</sup> Belmont.

*Chokeberry.*

A last year's Hunting Duck,  
Belmont by Clement's Brook.

*Alnus serrulata* — (Vide note, June 23<sup>rd</sup>)

We found the *Alnus* in flower,  
and noticed that some plants had only  
fertile flowers, while most had both  
kinds, that is, were monoecious.

We took specimens from both  
plants and marked them for future



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identification in the local papers.  
These specimens were growing in Wal-  
tham, by the edge of Clement's Brook.

In Cambridge we dry up several  
specimens of the *Impatiens* (or *Viola*)  
by the roots. Before pressing only, I  
shall leave mine in the open air for  
some days to soften.

Cambridge, Mass. Apr. 22 - 1883.

This P.M. I soaked two specimens of  
*Impatiens* *Violacea*

in boiling water and then put them  
in press. They are whole plants and will  
take some time to dry.

Mar. 2. Louis took these up to the  
Bot. Soc. after I had laid them in press a  
week without shaping them at all and put  
them in a wire press over a radiator  
with slow heat. They dried hard &  
stiff in between 3 & 4 days.

Cambridge, Mass. May 2 - 1883.

It has been a pleasant day but there  
is still a chill in the air and the buds  
have scarcely begun to open. Except for  
the Green & Red & White maples which are in



Now, the vegetation in Cambridge has  
 the appearance of a winter.  
 very few leaves.

I got a specimen of this tree from  
 the University Grounds and put  
 it in press. It is just beginning  
 to unfold.

Cambridge, Mass. May 5-1883.

A cool, chilly day with occa-  
 sional rain. This P.M. Mr. Bailey  
 & I took a drive through Belmont.  
 Nature is still very backward and  
 very little is to be seen. The *Salix*  
*discolor* is well in fruit all along  
 the road and the *Acer rubrum* is  
 beginning to make a beautiful show  
*Salix discolor*. (Fide L. H. Bailey jr.)

A fruiting specimen from wet boggy  
 ground by Concord Ave., Camb. near  
 Fresh Pond. We have marked the  
 tree and will get leaves later in  
 the season.



(Identified Sept 11-1883)

*Petrolaria*, Smith. (See L. H. Bailey, jr.)

The not terminate and pistillate flowers from the shrubs were taken in 1897 from Concord Ave. & Concord St. beyond the entrance to the Glacial. The name marked them to identify when the leaves appear.

*Acer platanoides*.

I got some flowering specimens of the Norway Maple this evening from a tree in the Arsenal Grounds that hangs over the sidewalk on Follen St.

Cambridge Mass May 11 1883.

We have had a warm rain today and it really as if we should have the green leaves out on the trees before long. The *Acer platanoides* and *Acer rubrum* are in full flower and they make a beautiful display. I took a stroll at the Gardens before I got a few things. I can leave what I want now from the Gardens for my

Apr. 1884. The 7 flowers  
please to be *S. cordata* x  
Sericea - L. H. Bailey jr.  
Leaves both specimens 1/2  
m. S. Bell. who named them  
in regard to the 8 fl. in Bell's  
"This is a *S. petrolaria* and  
western form of that."



*Prunella fragilis*, L. (Vide L. H. Bailey, jr.)  
 I got some staminate flowers from  
 the willow that grows at Fath.  
 near the barn door. Vide Sept. 15-1883.

Cambridge, Mass. May 12-1883.

A fine, rather cool day - in P.M.  
 I took the carryall and horse and went  
 off botanizing in Belmont with Mr.  
 L. Watson and Mr. Bailey. We had  
 a delightful time - Nature is really  
 beginning to look a little green and we  
 found a good many of the early spring  
 flowers up. Mr. Watson got some *Viola*  
 to plant in his garden and Mr. Bailey  
 got a number of plants for our  
 collection.

*Viola pedata*.

I secured a number of specimens of  
 this violet. They were growing abund-  
 antly on a hillside in Belmont near  
 the Fath. (see p. 10).

*Ostrya virginica*. A specimen with staminate  
 flowers in the same place as *Impatiens fulva*.



*Trillium*

... in ...  
...  
...

*Impatiens*

I got a few specimens of the touch-  
me-not in the patch of woods in  
Belmont on Concord Ave on the slope  
before the you reach the Station.

*Luzula* ... (the ...)

...  
...  
...

*Potentilla* (*canadensis*)

growing in a sunny spot by the  
road in Belmont.

*Saxifraga Virginiana*

... was growing in abundance on  
the hillside, in Belmont. I gathered  
a few specimens.

*Anemone nemorosa*

I took a few specimens from the  
same place as *Impatiens fulva* ...

*Arabis nudicaulis*

An early form just starting from



The same wood as *myricastrum fulva*.  
*Geranium peregrina*.

Near Clematis Brook, Belmont.  
 (Fide S. Watson)

*Fragaria Virginiana*.

Found by the road Belmont.

(Fide S. Watson)

*Scilla maritima* Americanum.

This was growing abundantly  
 by Clematis Brook, Belmont.  
*Geranium viride*.

By Clematis Brook, Belmont.  
 I put in press some of the fresh  
 leaves.

*Alnus Americana*.

A fruiting specimen from the  
 same tree as the specimens  
 sent me last Apr. 21.

*Betula alba, var. populifolia*.

Flowering, specimen from an  
 average-sized tree in Belmont.

*Ulmus glaberrimus*.

Fruiting specimen Concord  
 near the Railroad Station.



cordata, Muhl. x  
Sericea, Marshall

(Fide Mr. V. Bebb)

Flowering specimens from the same  
tree as those gathered last May 5.

undera Benzoin

Flowering specimens from Benzoin,  
Alabama. The flowers are  
very much like those of the  
tree found with yellow flowers.

Aesculus Hippocastanum

I have put in press a single leaf  
from the tree on which I found  
the silver leaved poplar.

See Rhamnus

Flowering flowers from tree on  
which I found the silver leaved poplar.

Ranunculus abortivus

A specimen with young leaves from  
the same tree as the specimens gathered  
last June 11 - 1882.

Ranunculus abortivus.

Flowering specimens from a hillside in  
Belmont.





Cambridge, Mass May 13-1883.

*Fraxinus americana*

I have put in press a specimen of  
the White Ash with just white flowers  
from the tree on the corner of Phillips St.  
and Garden St. The tree is on Garden St.

Cambridge, Mass May 18, 1883.

A warm day - The trees are at-  
last pushing forward their leaves rapidly.  
*Liquidambar*

A young hunting specimen with the  
leaves still on them the same I took  
on Garden St. as the specimen  
I had just seen -



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Cambridge, Mass. May 19-1883.

A clear, rather warm day till the latter part of the P.M. when an East wind and a cloudy sky made it quite chilly. This morn. Rollie and I drove up to Belmont on a botanizing excursion. The trees are beginning to look beautifully green. But few plants are yet to be seen. I collected however a few "specimens".

*Acer rubrum.*

I got these fruiting specimens yesterday afternoon from the road in Wrentham off North St. where the *Corythocarpus* grows in great abundance.

*Viola pubescens.*

I found this in abundance growing along a stone wall in an open field in Wrentham.

*Viola primulaefolia.*

Growing in very wet field not far from the *Viola pubescens*, in Wrentham.



*Arctia tuberosa* -

I found "two specimens" of the  
found but growing in very damp  
soil in Waltham, very near the  
river. They were growing  
in the coarse grass and with all  
my care I lost the tubers.

*Ulmus Americana* -

Fruiting specimen from the  
same tree as the specimen gathered  
last Apr. 21 -

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Cambridge, Mass. May 20 - 1883.

A clear day cool and pleasant.  
This P.M. I took a stroll through  
the fields bordering on Fresh Pond  
and got a few plants -



*Viola sagittata* -

I found this violet growing sparingly in the open fields. The leaves are quite heart-shaped, which I have not seen before in the specimens I have gathered.



- Carex* *vulgaris*, Fries. (fide L. R. Bailey jr.)
- Luzula campestris* - (fide S. Watson)
- Impatiens nuda* -

These were all growing in very moist land.

*Amelanchier Canadensis*, var. *heterophylla* -  
I got this specimen from one of two trees growing by Fresh Pond Lane which were at least 20 ft high and 4 in in diameter.



Cambridge, Mass. May 21-1883.

A clear warm day -  
*Fraxinus Americana* -

I put in press specimens with  
 small flowers from a tree on Concord  
 Ave. The next lot <sup>one</sup> to the corner of Buck-  
 ingham St. on the East side, South  
 side of the road.

Cambridge, Mass. May 23-1883.

A chilly day, partly rainy -  
*Prunus Pennsylvanica* -

I got flowering specimens of this  
 from a small tree just inside the  
 fence near the entrance to the Ob-  
 servatory grounds on Garden St.



Cambridge, Mass. May 24. 1883.

A cloudy rather cool day.

*Fraxinus Americana* -

A fruiting specimen from a  
tree on the Observatory Grounds over-  
hanging the fence on Bond St.

Cambridge, Mass. May 25 - 1883.

A very warm day -

*Capsella Bursa-pastoris*.

I put in press a large specimen  
of the Shepherd's Kense which I got  
up at Father's this P.M.

Cambridge, Mass. May 26 - 1883.

A beautiful clear day, but warm  
with a very high wind.

This P.M. Margie & I drove up to Bel-  
mont. Nature has now fairly resumed  
her sway and every thing is fresh and  
green. I gathered a no. of things for press.



*Viola pubescens*

Watham.

I visited the same place where I found the Yellow Violet last May 19. It was growing profusely under the shelter of a stone wall and some bushes and was in full flower. Last week they were just beginning to open. They were freely intermixed with the *Sanguinaria Canadensis*.  
*Viola pedata* -

These specimens were gathered from the same hillside as those of last May 12. The flowers were very large and gave a beautiful tint to the hillside.

*Sanguinaria Canadensis* -

A fruiting specimen from the little patch of woods in Belmont on Concord Ave.

*Trillium cernuum* -

A flowering specimen from the same locality as the *Sanguinaria* above.



*cordata, Muhl. x  
Sericea, Marshall*

*Salix* with (M. S. Bebb)

A fruiting specimen from the same tree as those of May 5. Cambridge.

*Polygonatum bifolium* -

I found two specimens of the above plant on a rocky hillside in Belmont off Forest St.

*Actaea spicata*, var. *rubra*.

I found this single flowering specimen growing by a stone wall in Belmont.

*Ulmus Americana* -

A fruiting specimen from the same tree as those of Apr. 21, last.

*Celtis occidentalis* -

A flowering specimen from the same tree on Bond St. Cambridge, as the specimen gathered last Oct. 28, 1882.

*Acer Pseudo-Platanus* -

Specimens from a tree on Bond St. Cambridge with pinnate and palmate flowers.



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Cambridge, Mass. May 27-1883.

A. warm day, cloudy. Showery in the A.M.

*Acer Pseudo-Platanus*

I got some flowering specimens  
1) This Maple from a tree in Mr.  
J. Winsor's front yard on Concord Ave.

Cambridge, Mass. May 30-1883-

A most beautiful day, clear and not too warm. Having a holiday, to-day, I spent the morning in poisoning all the plants I have gathered this spring, except those I tell in the press. This P.M. Margie & I drove to Middlesex Fells. The afternoon was perfect and the vegetation fresh and green, as well as profuse. Spot Pond is in the centre of the Fells and is surrounded by wooded and rocky hills. The wild flowers are abundant and I found plants very common there, which I have not found so elsewhere.



The following were gathered in Middlesex Fells, near Spot Pond close to the boundary line between Medford and Stoneham.

*Comandra umbellata* -

I found a good deal of this, growing by the road. It was almost all in bud but I found two or three specimens in flower.

*Saxifraga Virginensis* -

Fruiting specimens -

*Myosotis sylvia* -

I found this abundant by the roadside and at first did not know what it was, never having seen it before.

*Pedicularis Canadensis* -

Fruiting specimens. I found a small hillock completely covered with this Xanthoxanth. It was well in fruit and was conspicuous for its lanceolate pods projecting from the calyx.

*Rhynchospora alba*, var. *melanocarpa*.

I found a single specimen of this in flower growing in the cleft of a large boulder.



*Vaccinium vacillans*.

I found this abundant in one spot by the roadside. It was all about a foot high.

*Gaylussacia ulmifolia*.

I found a few specimens of this. Its cyathial red corolla give it a marked contrast with the glabrous corolla of the *Vacciniums*, that is, our common ones.

Cambridge, Mass. June 3-1883.

A most beautiful clear day. This P.M. Dottie & I drove up into the Fells and went round Spot Pond. The air was perfumed with the odor of thousands of plants and every breath gave you new life. I went armed with rubber boots, towel, hoe, press and vasculum and I found them all indispensable. I collected quite a number of plants, several of which were



new to me. I become more and more im-  
pressed with the local character of  
plants. For instance the *Myosotis*  
*rema* and *Gomandra umbellata* are  
common in the Fells and yet in all  
my wanderings in Cambridge & Belmont  
I never met with the former nor with  
but one specimen of the latter.

Plants collected in Middlesex Fells.  
Mass. June, 3<sup>rd</sup> 1883.

*Ranunculus multifidus*

*Cardamine hirsuta*.

*Callitriche rema*.

I found these three plants grow-  
ing together in a small bog close by  
the road. I have never gathered the  
Water Crowfoot nor the *Callitriche* be-  
fore. The latter completely covered the  
water in places.

*Hepatica triloba*.

I found this fruiting specimen  
growing on a slope by the road.

*Carex* *bulbosa* *Pack* *(Det. L. S. Briggs)* <sup>no at all at</sup>  
In damp soil, in a shady place.



*Potentilla Canadensis*, var. *Pimplex* -

In dry soil, by the road -

*Anemone nemorosa* -

*Vaccinium corymbosum* }

2 ft. high

Filaments barely ciliate - Dr. is interested in this plant and wants more of it next year.

*Clethra alnifolia* -

Growing by the roadside in shady places.

*Pedicularis Canadensis* -

Shady wood.

*Actaea alba* -

Rocky slope by Spot Pond.

*Krigia Virginica* -

I met this plant for the first time. It was growing in very dry soil, in a rather exposed place, covering about a square yard. I saw it nowhere else -

Cambridge, Mass. June 5<sup>th</sup>, 1883.

*Acer saccharinum* }

*dasycarpum* }

Fruiting specimens from cultivated trees, Cambridge.



Cambridge, Mass. June 9<sup>th</sup> 1883.

A most beautiful day, though rather warm. This P.M. my sister Mary and I drove up to Belmont. Nature is certainly clothed in the richest dress now and every tree has put forth its leaves. The white & Red Maples have dropped their fruit almost entirely.

*Sanguinaria Canadensis* -  
*Viola pubescens* -  
*Geum rivale* -

From Waltham. The first two specimens are in fruit. The Geums, in fruit & flower, are strangely the first specimens I have seen since 1881, when I gathered it in South Lee, Mass.

*Veratrum viride* -  
*Opalis rostrata* -

Belmont, near Glenatis Brook. The *Opalis* is the first specimen I ever saw and, I imagine, very uncommon in this locality.



*Acer rubrum* -

Specimens with leaves from the same tree as those gathered last May 19<sup>th</sup>. I also gathered some keys from under the tree -  
*Graxaceum. Hensleoni* -  
*Cornus alternifolia* -  
 Belmont -

Cambridge, Mass. June 11 - 1883.

A very hot day.

*Acer platanoides* -

I have put in press fruiting specimens from Bollen St. off the same tree as those gathered last May 5<sup>th</sup>.

Cambridge, Mass. June 16 - 1883.

A clear, cool day.

† *Salix petiolaris* Smith (fide M.S. B.S.) - ♀ *cordata* x (fide Sericea - M.S. B.S.)

I got some flowering specimens of the ♂ & ♀ willows by Fresh Pond from the same trees as those of last May 5<sup>th</sup>.



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Cambridge Mass. June 18-1883

*Acer Pseudo-Platanus* -

Fructing 2 specimens from the same tree as those gathered last May, 26 on Bond St. Camb.

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Cambridge Mass. June 19-1883.

*Potentilla recta*, L.

I got specimens of this in Mr. F. Eustis' yard where it was running wild. It is a European plant and is to be found in the "Field Forest & Garden."

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Cambridge, Mass. June 23-1883.

A warm day. This P.M. Mr. Bailey and I drove up to Belmont and secured a few plants. A magnificent luxuriant growth covers the woods now and makes them very attractive.



*Alnus serrulata* - (Fide S. Watson)

These specimens we got from the same shrubs as those of last Apr. 21. They were in Waltham by Clematis Brook.

The following were got in Belmont.  
*Cryptotaenia Canadensis* -

In flower. Growing abundantly in the little wood off Inwood Cr., a short drive this side of the station.

*Cornus paniculata* -

By the dust, roadside. In flower.

*Smilax herbacea* -

Staminate & pistillate specimens by the roadside.

*Ligustrum vulgare* }  
*Rubus Canadensis* }

By the road -



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Cambridge, Mass. June 24-1883.

A very hot day. Will Dodge and I started off this morning and took the horse-car to Milton Lower Mills. From there we walked two miles down the Randolph Turnpike and then struck into the woods to the East and walked a mile farther. It is a beautiful wood very thickly grown and crossed by many wood paths where however it would be difficult to find our way, unless thoroughly acquainted. I got a few interesting plants in this wood when we retraced our steps reaching home by 7 P.M.

*Houstonia purpurea*, var. *longifolia* -

I found this growing in two places in the wood, in dry soil, by the foot path. In each place, it was reasonably abundant. I have never seen it growing before. The flowers were dimorphous. Locality, Between Milton & Quincy.

*Asclepias quadrifolia* -

We found this in one spot in rather



dry soil, under the shade of trees.  
 A small clump of 8 or 10 plants  
 were growing close together and they  
 were very beautiful with their deli-  
 cate light pink flowers on slender  
 pedicels and whorl of 4 leaves  
 - The centre of the stem. I had  
 never seen the plant before and  
 was much impressed with its grace.

A few scattered specimens were  
 growing near by. Locality. Between Milton  
 & Quincy.  
*Nieracium venosum* -

A flowering specimen in the  
 wood path - This plant was growing  
 at intervals of 2 or 3 rods in the  
 deep wood. Locality. Between Milton & Quincy.

*Lythymachia quadrifolia* -

Flowering specimens in the  
 woods. Very abundant. Locality  
 Between Milton & Quincy.



Cambridge Mass. June 25 1883.

A very hot day.  
*Viola cucullata*.

Specimens with cleistogamous fruit,  
growing in the waste lot - at the corner  
of Bond St. & Concord Ave.

*Erigeron annuus* -

Waste lot, corner of Bond St. &  
Concord Ave. I found several  
specimens of this plant there -  
I never found it elsewhere.

Cambridge, Mass. June 30 - 1883

A beautiful, cool day. This P.M.,  
Helen Dexter & I drove up to Middlesex  
Felds. I secured the following plants  
from Medford.

*Carex crinita*, Lam.

" *tentaculata*, Muhl.

*Polygonum arifolium*

very wet ground -

} (See L. H. Bailey, p. 1)

Medford.



*Asclepias physaloides* -  
Roadside. Medford.

*Ligustrum virginica* (fruit)

*Oenothera americana*

*Myosotis verna* (fruit)

*Garpinus americana* (fruit)

*Gynoglossum officinale* (fruit)

*Rosa lucida*

Roadside. Medford. Specimens

of the Hornbeam (var. *virginica*) and

Spot Pond. Medford.

I got one specimen in *Stoneham* of  
*Conium maculatum*.

Roadside. Stoneham.

*Ailanthus glandulosa*.

I got a specimen with staminate flowers from Miss Needham's garden. Cambridge.

Cambridge Mass. July 3 - 1883.

*Ailanthus glandulosa*

Specimen with pistillate flowers from Mrs.







Shelburne, N. H. July 5-1883.

A showery day. - Geo Philbrook  
has packed about a dozen specimens of  
plants for me between the end of May  
and July -

*Potentilla argentea* -

In a grassy plot back of the  
house -

*Spiraea doerbigiana* -

*Asierina officinalis* -

Garden specimens -

*Galopogon pulchellus* -

*Sarracenia purpurea* -

Bog by Russell's pond.

*Carex monile*, Tuck. (Fide L. A. Bailey).

Wet ground in a creek -

Shelburne, N. H. July 6-1883.

A clear day, warm in the sun, but  
with a cool breeze all day. This A. M.  
I explored the Knubble thoroughly and



in the P.M. I went down to the creek  
in front of the house where I found a  
new shrub for the herb. (Myrica Gale)  
*Potentilla argentea* Norvegica -

Meadow -

*Salix rostrata*, Rich. (Fide L. Fr. Bailey, jr.)

Meadow by a brook.

*Galium trifidum*

Meadow -

*Monotropa uniflora* (fruit)

*Linum catharticum*

*Lythra spicata*, var. *rubra* fruit

*Crataegus monticola*

Shady hill - - The Knubble.

*Carex pallescens*, L. (Fide L. Fr. Bailey, jr.)

Meadow -

*Myrica Gale*

*Nuphar advena*

*Senecio aureus* (akenes)

Creek -

*Carex monile*, Tuck. (Fide L. Fr. Bailey, jr.)

In a creek -



Shelburne N.H. July 7-1883.

A warm day, followed by a heavy shower in the P.M. - After dinner I walked some way with Robbie Greenough towards Mt. White through the woods where I gathered a number of plants.

*Habenaria sibirica* -  
*Galium triflorum* -  
*Pyrola secunda* -  
*Ranunculus recurvatus* -  
*Mitchella repens* -  
*Felis Acetosella* -

Deep woods. The *Habenaria* and *Crowfoot* are the only specimens I have found in Shelburne, though, where I found the former, there were 4 or 5 plants consisting merely of the broad leaves with no scape.

*Moneses uniflora*.

Growing among pine needles in a pine grove in the woods. I have never found the plant except in this one locality.



*Fagus ferruginea* -

Deep woods -

*Hamamelis virginica* -

*Veronica herbicollis* -

Sunny Slope

*Tragaria vesica* -

Sunny Slope - Gray's description exactly corresponds with this plant especially in regard to the achenia -

St Albans N.H. July 8 - 1888 -

A cool, cloudy day - This P.M. we took a walk to Lewis' Pond - The *Poronias* in Wheeler's bog are in full flower - I collected several plants -

*Saxifraga purpurea*

(Fide L.H. Bailey, jr.)

*Eriophorum gracile*, *Hel. var. paucinerium*, *Gry. al.*

Bog by Wheeler's Pond -

*Aca. stygium* -

By Wheeler's Pond

*Ribes cynosbati* -

Roadside -



*Agrostis Pennsylvanica* }  
*10 cula intera* }  
*Corylus rostrata* }

Open ground -

*Agrostis tentaculata*, Mill. (Fr. L.A.B. 12, 13.)

" *crinita*, Lam. ( " " )

Wet ground by a stream -

Shelburne N.H. July 9 - 1883.

A cool clear day. This A.M.  
 Mr. Batchelder and I, walked 3 miles  
 in the direction of Lead Mine Ridge  
 Mr. B. looking after the ornithological  
 & I the botanical interests.

*Lactuca Canadensis* -  
 Roadside -

*Eriophorum alpinum* -

This grows in a patch some 15 ft.  
 square in a very wet field near the  
 road. Unfortunately it was nearly by,  
 but I got some specimens and col-  
 lected some fruit. The caryopsis  
 with 6 barbs is interesting -



*Carex intumescens*, Rudge. } (See L. H. Bailey, in.)  
*Cucullaria* Muhl. }

*Stellata*, L. } (See L. H. B's letter of July 11/83.)

The sedges were growing in wet ground

*tentaculata* Muhl. (See L. H. B's letter of July 11/83.)

Wet ground by the roadside -

Helburne N. H. July 10 - 1883.

A clear cool day - This A.M. I  
 walked to Bowls & Retchers, a curi-  
 ous wearing away of the rocks in  
 Mill Brook, about a mile from the  
 road in the woods. I found a large  
*Tilia Americana* in bud -

*Sisyrinchium Bermudeana* }  
*Dalibarda repens* }  
*Coptis* }  
 Rich Woods

*Trillium erythrocarpum*  
 Rich Woods.

*Viola cucullata* -  
 Hillside - (Eristogonous fruit.)

"Kenilworth" - (See L. H. B's letter of July 11/83.)  
 "The flowers" - (See L. H. Bailey, in.)



*Carex scabrata*: Schw. (Fide L. H. Bailey, jr.)

Growing in crevice between rocks in wet soil by Mill Brook. I have only found these three plants.

*Juncus effusus*, L. (Fide L. H. Bailey, jr.)

Wet ground -

*Microstylis ophioglossoides* -

I found this single specimen growing in a very dry, open, sunny spot, in very short grass. I have sketched the flower under a microscope.

Shelburne N.H. July 11-1883.

A clear comfortable day: This A.M. I walked 2½ m. down the road passed Gates' Cottage and botanized.

*Carex scabrata*, Schw. (Fide L. H. Bailey, jr.)

I found this growing in a large clump in a sandy spot by Mill Brook.

*Rumex Acetosella*,

Fruiting specimens by the roadside.



*Antennaria plantaginifolia*  
Roadside - Shenandoah -

*Trifolium pratense*  
Roadside - Fruiting specimen -

*Asclepias incarnata* - { 9 Sept. Spec. to Cambridge and received the answer below -

I found this Milkweed growing in a creek in a low meadow. There were all about 5 plants. In one case, about a dozen stalks arose from a spot 2 ft. in circumference, to the height of 2 1/4 ft. I often find *Asc. incarnata* without the hairy lines. The hairs & match spec. in (Gray) herb "L. H. Bailey Jr."

Shenandoah V. H. July 12. 1883.

A warm day, with a thunder shower this P.M. This A.M. a small party of us walked to the top of Mt. Cabor. The view was superb -

*Prunus Pennsylvanica* }  
*Vaccinium Canadense* }

Fruiting specimens from the top of Mt. Cabor -

*Monotropa uniflora*

Deep woods on the side of Cabor-Mt.



*Preptopus amplexifolius* -

I have put in press several fruiting specimens from a single plant growing in a deep moist wood about  $\frac{1}{2}$  m back of the house -

Shelburne N.H. July 13 - 1883.

A rather warm morning with Thunder showers in the P.M. This A.M. I walked 6 miles along the road botanizing. This P.M. I went down to the creek & the knubble near the house.

*Rubus strigosus* -

fructing spec<sup>s</sup> from the roadside. I observed a curious fact in the growth of the Raspberry which I saw scarcely ever deviated from. The new shoots of the plant spring from the ground, are glaucous & are 5 leaflets to 7 leaflets. The old branches which bear the fruit, have much smaller leaves with 3 leaflets. I saw up one spec<sup>s</sup> with the old



Stems and a fresh shoot springing from the same root.

*Microstylis ophioglossoides* -

I found two more plants growing in a dry, open, sunny spot in thickly tufted short grass and the small

succulent (*Antennaria plantaginifolia*) have put one in press and the other in case it may fruit.

*Phimaphila umbellata* -

*Pyrola rotundifolia* -

*Corylus rostrata* -

Deep wood on the knubble -

*Carex scoparia*, Schk. (Fide L. H. Bailey jr)

By the creek - Low ground.

" *stricta*, Lam. var. *stricta* (Fide L. H. Bailey jr)

In the creek

*Glyceria Canadensis*, Trin. (Fide L. H. Bailey jr)

By the creek - Low ground.



Shelburne N.H. July 14 1883.

A cloudy pleasant day - I  
staid at home most of the day  
working on my plants and writing.  
This a.m. I went to the creek in  
front of the house and got a few  
things - This P.M. I saw a  
couple from deep woods in Fildes me.  
& 1 spec. of *Habenaria elatata* - The  
flowers are white, anther cells al-  
most parallel and between them is  
the rostellum.

*Cornus stolonifera* -

A young spec. from the creek.

*Carex vulgaris*, Fris. (Fide L.H. Bailey, Jr.)

Creek - Growing abundantly.

*Eleocharis palustris*, R. Br. (Fide L.H. Bailey, Jr.)

Creek, abundant

*Pirpus sylvaticus* L. & *atrovirens*, Muhl. (Fide L.H. Bailey, Jr.)

By the creek, rather abundant.



Shelburne, N.H. July 15-1883.

A clear day, rather warm with a heavy rain all the evening. This A.M. Jamie Greenough & I drove with a buckboard down to Fild, Me. and then up the Wild River Valley by a wood road, very rough for 3 miles where we latched the horse to a fence. We then walked nearly a mile into the woods up Coan's Brook. I never found a more beautiful and luxuriant growth than was along the valley. The *Clintonia borealis* with its berries turning blue, *Streptopus rogersi* & *amblyophyllus* with their red berries hanging gracefully along the stem were growing in great abundance on the mossy banks of the road, mingled with an occasional *Asplenium pinnatifidum* half hidden in some shrubby growth. At one spot where we stopped to water the horse we found the *Asplenium dilatatum*, some ten plants, in very wet, spongy soil. The white flowers distinguished them



and from *H. hyperborea*, their near relative. The Wood Nettle (*Laportea Canadensis*) was growing in profusion, a graceful plant, with large serrated leaves, long petioles and stinging hairs. The latter last characteristic we easily found out, in attempting to pick the plant. I gathered my wife pressed full of plants and succeeded in bringing home a magnificent specimen of *Habenaria pinnatifida*, 2 1/2 ft. high its spike of many purple flowers 11 inches long. <sup>with about 80 flowers & buds</sup> I have it now growing in my room and shall keep it so for a few days before I put it in press. <sup>The folded are from Lake River Valley, Me.</sup>

*Streptopus roseus*

Fruiting spec. abundant.

*Laportea Canadensis*

A monoecious plant. abundant in one spot.

*Habenaria limbricata*

Vide Aug. 19. May 1855.

Shady nooks. occasional.



*... ..*

A fine spec. of fruit.

*Tabernaemontana dilatata*.

Specs in flower and quite well developed fruit. Wet shady place.

*Andropogon brevistylis* - (Fred L. H. Bailey, jr.)  
Fruit. Shady place.

*Centella asiatica*.

Wet ground by the logging road, abundant.

*Equisetum hyemale*

*cylovaticum* {

*arvense* x }

Wet ground. The *E. hyemale* has a spike at the end of the stem and also a lateral <sup>one</sup> at a short distance below.

*Aspidium acrostichoides*.

Fertile and sterile fronds. Shade.

*Urochloa tenuifolia*.

Fruiting panicle.

x "E. arvense is frequently 3-sided. There are such spec. in (Gray) herb." L. H. Bailey, jr.



Shelburne N.H. July 16-1883.

A warm day. This A.M. I took a walk of 3 m. and this P.M. I went over the river with Loring Briggs, bathed in ~~the~~<sup>the</sup> brook and wandered about for an hour or so. I found the *Aralia hispida* growing in profusion by the railway track, and the *Potentilla fruticosa* lining the roadside near the Old Echo House.

*Microstylis ophiglossoides*.

Roadside, growing in a very dry sun-  
spot. The 3 spec.<sup>s</sup> I have found thus far  
were growing in similar situations among

*Antennaria plantaginifolia*.

*Pyrola* *peruviana*.

Fruiting spec. Roadside.

*Calystegia sepium*.

side.

*Lycopodium complanatum*.

Woods.



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Lecture 1<sup>st</sup> July, 1883.

A warm cloudy day cooler in the P.M. I spent the A.M. in changing the blotters of my plants. I received quite a number from the press. This P.M. evening I took a walk up to Crown Hill by going back of the house to the ridge and keeping along that to Green's Nest - I found the *Spiranthes cernua* in bud.

*Gaultheria procumbens*.

*Cornus Canadensis*.

*Ribes cynosbati*.

*Amelanchier Canadensis*, var. *longifolia*.

fruiting specimens.

*Rumex acetosella*

Stems 1 spec. to illustrate the leaves.

*Desmodium acuminatum*.

(birds - Green's Nest.



Shelburne N.H. July 18-1883.

A cool day. This P.M. I strolled  
down the road past Wheeler's Pond and went  
through a bog to the right of the road. Find-  
ing nothing in it different from Wheeler's  
bog.

*Larix Americana*

Bog.

*Eleodes Virginica.*

Bog - Wheeler's Pond.

*Quercus rubra*

*Acer rubrum*

*Betula papyracea*

Seedlings growing <sup>under</sup> parent trees.

Shelburne N.H. July 19-1883.

A cool, cloudy day. This A.M. I  
went up to Brook & Pitcher and  
gathered several specimens on the way.

*Cypripedium acaule*

*Cornus Canadensis*

*Walibarda repens* \*

\* Vide ...



Here by Mill Brook.  
*Pinus Strobus*.

Berlin. Pine grove.

*Eucyphorum Virginicum*, L. (Fide Dr. Bailey)  
 Tree ground - Field

*Cornus stolonifera*

Tree grows by the roadside.

*Lilium Philadelphicum*

*Galium nudicaule* - Rare & fr. long. }

Knubble - Wood.

Shelburne - Vt. July 20 - 1883.

A pleasant day, cloudy. This A.M.  
 a large party of us drove to Berlin  
 Falls, 14 m. from here. The road is a  
 most beautiful one, Mt. Madison &  
 Adams, being almost constantly in  
 view. We plainly saw the wall of  
 King's Ravine, with Howell's Peak at  
 its head. Berlin Falls is in the  
 Androscoggin River in the town of  
 Berlin. The river has quite a patch



at this place and the steep rocky banks approach each other causing the water to form and dash in a grand and wonderful manner. We crossed the Falls on a bridge to an island where we picniced. The scenery was grand. The *Arbo Vitae* (*Thuja Occidentalis*) grows abundantly near the river and I found one tree nearly 2 ft. in circumference. We stayed till after 4 o'clock, watching the Falls, botanizing &c and reached home at 7 P.M.

The following plants were gathered at Berlin Falls, Berlin, Ct. 1881.

*Amundsen regalis*.

" *Claytoniana*, (Fide A. Gray)  
*Solidago rigida*-*Aurea*, var. *humilis*-

Rocks by the Androscoggin River.

*Salix lucida*.

This most beautiful shining Willow was growing among the rocks near the River, some 10 ft. high and it made a fine appearance with its brilliant glossy foliage.



*Solidago Canadensis* - (Hill & Gray)

Rocks by the River -

*Olethra borealis* -

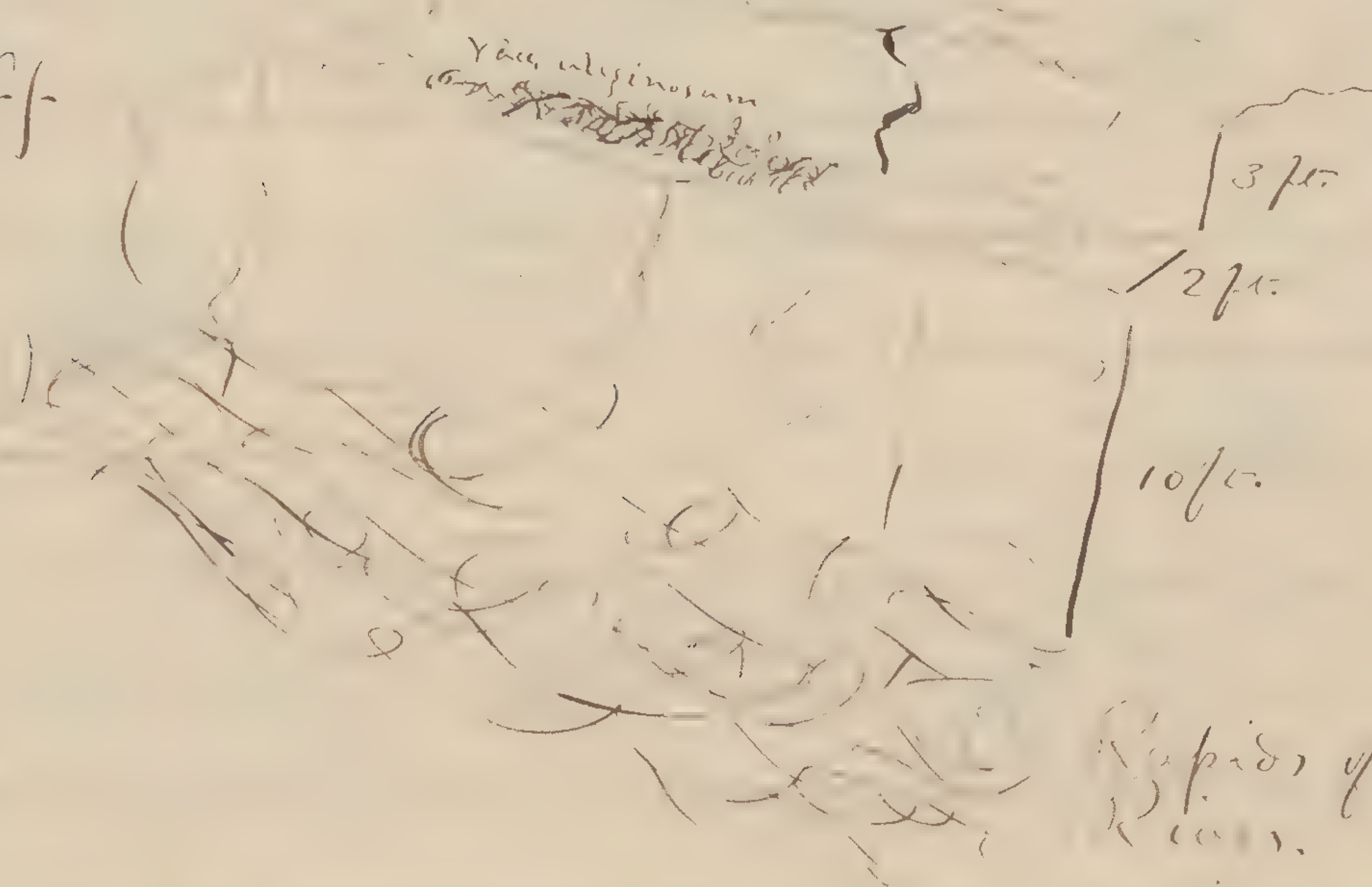
*Ribes prostratum* -

Deep woods

*Vaccinium uliginosum* -

I found this Bog Bilberry growing in the crevice of a rock, some 10 ft. above the water of the River. It was growing along in the crevice for about 10 ft. and was quite low and spreading. The rock was something of this shape -

(2 ft)



Rapids of the Anouscoppin River.

There was no fruit on it, but I found some withered flowers with corolla. The calyx lobes were 4. In Gray's Synoptical Flora



its habitat is the summits of  
~~White Mts.~~ "Arctic America to the  
 alpine region of the mountains of  
 New England, New York &c.

I am therefore surprised at  
 finding it where I did - See note  
Page 111.

Shelburne N. H. July 21-1883.

A warm day - I stayed at home  
 to-day attending to my plants and ana-  
 lyzing those of yesterday - This P.M. after  
 tea, I took a short walk down the road  
 and found the sweet flag in a wet  
 piece of ground opposite Green's Farm.  
*Acorns Calamus,*  
*Iris versicolor,*

Wet ground - This is the only  
*Acorns* I have seen in Shelburne.



Shelburne N. H. July, 22-1883.

A rather warm day with a beautiful sunset. This noon I went in bathing in the Androscoggin River and swam across with Gus Philbrook.

*Scutellaria galericulata* -

Wet ground by the river.

*Veronica scutellata* -

Ditch in a field.

*Vaccinium Canadense* -

Roadside -

I put in press to-day the large spec. of *Habenaria fimbriata* which I gathered just a week ago (July, 13) in Wild River Valley. It measures from the top of the root to the end of the flower-stalk just 36 in.



Shelburne, N.H. July 23. 1883.

A pleasant windy day. I stayed about the house to-day, collecting various plants in fruit. Jamie Greenough went fishing up Ingalls Brook to-day, and he tells me of a Pine he met which was 12 ft. 3 1/2 in. in circumference, 3 ft from the base. The trunk rose without a branch for nearly 30 ft and then forked.

*Dioscorea rotundifolia*  
*Eleocharis palustris*  
*Cardamine hirsuta* }

Brook, in front of the house.

*Acer rubrum*.  
*Dirivilla trifida*. }

Woods Knubble.

*Betula papyracea*

I secured leaving specimens and sections of a branch of a tree in a wood (Knubble). The tree was 5 in in diameter, 3 ft from the ground and was from 25 to 30 ft high.



*Taccinium Pennsylvanicum*  
*Izabesum Thapsus*  
*Ombeltonia asplenifolia*  
*Potentilla argentea*

Hillside - Sunny place -

*Linnaea borealis*  
*Corylus rostrata*  
 Woods.

*Brunella vulgaris*  
*Impatiens, fulva*  
 Roadside.

*Brassica campestris* var. *Hapsus*.  
 (Fide L. H. Bailey, Jr.)  
 Old field - Growing freely.  
 (Fide Note Page 128)

Helburne N. H. July 24 1883

A perfect day - I did very little collecting.

*Lus typhina*  
 Roadside.

*Setaria viridis*, Beauv. (Fide L. H. Bailey, Jr.)  
 Roadside.

*Scirpus montana* - *spicatus*

Roadside (coll. J. J. Greenough)

(Diary continues Page 134.)



List of plants collected by Engel  
C. Deane in San Diego Co., Cal. in  
the Spring of 1883. Almost all are  
from Sweet-Water Valley about 15 m.  
inland; a few are from the coast  
within 100 ft. of Lower Cal. -  
Identified with the assistance of Dr.  
A. Gray & Mr. S. Watson.

*Platystemon Californicus*, Benth.  
*Eschscholtzia Californica*; Cham.  
*Silene cuneata*, Nutt.  
" *reflexum*, Nutt.  
*Calandrinia Menziesii*, Hook.  
*Claytonia perfoliata*, Donn.  
*Malva borealis*, Wallman.  
*Erodium cicutarium*, L'Her.  
*Vitis Californica*, Benth.  
*Lupinus micranthus*, Dougl.  
" *tumidus*, Nutt.  
*Medicago parryi* Gray, Desf.  
*Medicago cuneolata*, Willd.  
*Prosopis juliflora*, Torr.  
*Astragalus vaseyi*, Watson.







11  
*Uronia muricata*, Nutt.

*Euphorbia albomarginata*, Nutt.

(I have verified all the above by comparison at the Gray Herbarium -)

W. Deane.  
These plants are in my herbarium -

Note on *Brassica campestris* - Page 125 -

Gus Philbrook tells me that this Mustard is a most pernicious weed and always springs up in a field of barley, flowering and fruiting in a year. If the sowing of barley is discontinued the mustard ceases to grow though it may persist for a year or two. In the field of oats where I secured my specimens, barley was growing the year before in one half of the field, potatoes in the other. The Mustard now is in the half only where the barley grew.

[See letter of L. A. Bailey, of Aug. 4, 1883.]



151  
Letter from L.H.  
Bailey jr. on my  
Spec. of  
*Brassica*  
*campestris*.



Cambridge, Mass. Sept. 5 - 1883 ~

Note on *Faccini* or *uliginosum*, (Page 121).  
 I have talked with Dr. Gray in reference  
 to the locality in which I found *V. uligin-*  
*osum*. He was not much surprised as  
 he said it was rather a subalpine than  
 an alpine plant. He changed the word  
 alpine to subalpine in his Synopti-  
 cal Flora. ~

---

Cambridge, Mass Dec 31 1883.

L. H. Bailey jr. has verified all my  
 Grasses from the Herbarium of Horace Mann.







A List of plants collected in Apr. 1884  
by Tho. L. Browne of Boston, at St.  
Augustine, Florida and Kittrell, N.C. with  
a few additions - The plants are in my  
herbarium - W. Deane. May 1884.

- Asimina grandiflora*, Donal.  
*Sarracenia variolaris*, Michx.  
*Cardamine hirsuta*, L. var. *oligosperma*,  
*Sisymbrium Theliana*, Gaud.  
*Viola cucullata*, Ait. var. *cordata*, Gray  
 " *sagittata*, Ait.  
 " *pedata*, L. (var. *bicolor*, Pursh.  
 Arlington Heights Va. Apr. 1884, T. L. Browne)  
*Ascyrum stans*, Michx.  
 \* " *amplexicaule*, Michx.  
*Lupinus diffusus*, Nutt.  
*Thermopsis mollis*, M. A. Curtis.  
*Cercis Canadensis*, L.  
*Schrankia uncinata*, Willd.  
*Crataegus coccinea*, L.  
*Amelanchier Canadensis* L. var. *Retzypum*, Torr. & Gr.  
*Paxifaga Virginiana*, Michx.  
*Leptocaulis divaricatus*, DC.  
 " *Cornus Florida*, L.



- Sedum sempervirens*, Lit.  
*Hamamelis Virginiana*, DC.  
*Populus pehlabata*, A. DC.  
*Leucocoe caerulea*, Gray { Geo. or P.C. 3 pe. 1834, 1. 2. 1. }  
*Rhododendron nudiflorum* Torr.  
*Syrax puberulentum*, Michx.  
*Penicillata lutea*, Willd.  
" *elliptica*, Michx.  
" *pumila*, Michx.  
*Gratiola Virginiana*, L.  
*Salvia lyrata*, L.  
*Lamium amplexicaule*, L.  
*Passiflora officinalis*, Pres.  
*Cnicoscopus stimulosus*, Gray.  
*Eriocaulon gnaphalodes*, Michx.  
\* *Melia Azedarach*, L.  
° *Viburnum prunifolium*, L.  
+ *Hieracium venosum* L. (Young plant).

These three  
 are out-  
 of place,



A clear beautiful day. I have  
 had a hard time today. This  
 A. M. Loring Briggs & I started off for  
 a climb up Bald Cap. I went  
 armed with all my botanical appa-  
 ratus, including my wire press which  
 was purely no assistance in climbing.  
 We struck in to the fields at Gates  
 and ascended 1<sup>st</sup> Mt by easy stages.  
 Then we crossed the valley between  
 1<sup>st</sup> & Middle Mts and before long were  
 on the Summit of the latter. Already  
 I found quite a number of very  
 nice plants growing in the deep  
 shade on the mountain side. The  
 "Little Rock Mountain" (G. & A. & A.)  
 and "Verbena" (G. & A. & A.)  
 gave me the delight of the soil I  
 always feel at meeting a new plant  
 at the first time. From Middle  
 Mt. we crossed another valley and  
 were soon struggling up the ascent



left-rashly, the path by which the  
ice is usually traversed to the point  
thence we were to go on our  
round ourselves out on the ledges. Ex-  
pecting every moment to find crevices, we  
stepped carefully on and at times  
Loring tried to follow in the narrow  
moss-filled crevices of the rocks, while a  
false step would have precipitated  
us into the sea. It was impossible  
to see the bottom of the crevices  
and it was the entire ice, some  
hundred ft, without finding some in-  
passable barrier. Fortunately we suc-  
ceeded, though my heart failed me  
more than once and on one occasion  
I was obliged to draw myself up by  
clinging on to Loring's legs while  
he swung. The branches of a small  
tree at last reached the other  
side and I went down exhausted,  
the mental strain being  
a typical strain. Loring, you see







*Lythrum rosea* {  
*Millium erectum* }

Fruticose Spec. Rich wood. slope  
Middle Mt.

*Microstylis ophioglossoides* {  
*Spiranthes cernua* }

Very dry ground - Summit of Middle  
Mt. The *Spiranthes* was very strongly  
"ceiled" - Stigma with long and very slender beak.

*Betula papyracea* -

The tree from which these Spec.  
came was growing <sup>among</sup> rocks on the ver.  
Summit of Middle Mt. It was leaning <sup>over</sup>  
with its branches all pointing <sup>in</sup> one way  
owing to the winter storms and was  
not more than 5 ft. high, though it  
had a trunk of 4 or 5 in. in diameter.

*Campanula rotundifolia* {  
*Ulmus viridis* }

Rocky Cliffs on the Side of Bald Cap.

*Juniperus virginica*

Fruticose Spec. in the woods a -

part of the tree -



*Tabenaria ovata* -  
*Lycopodium lucidulum* }  
*Lycopodium dendroideum* }  
*Polypodium nudum* -

Wet, damp woods - Summit of Bald Cap.

W. Burne N.H. July 26 - 1883.

A very warm day - I stayed  
 quietly at home to-day and only  
 visited the Knubble in the P.M.  
 The Knubble is the small wooded  
 knoll in the field, bordering on the  
 Androscoggin River.

*Anemone virginiana* )  
*Opimaphila umbellata* )  
*Lycopodium dendroideum* )  
*Lyrola rotundifolia* (Kun-  
 " *eximium* )  
 " *secunda* )

Knubble - Woods.

F. J. Greenough brought me from 1st of Andros  
 the *Spiranthes cernua* & *gracilis* - the former  
 is very sweet & scented.



1721  
found here in 1725. I saw *Rubus*  
*odoratus* which Bertie Briggs found about  
2 miles from here back of Crow's Nest.

- Shelburne N.H. July 27 - 1883 -

A pleasant day. I have stayed  
at home to-day, my unfortunate trouble  
returning, though overexertion I am afraid  
on Bald Cab. I collected a few things  
this A.M. near the house.

*Acer saccharinum*  
*Hamamelis Virginiana* }  
*Rubus strigosus* }  
*Vaccinium Canadense* }  
Fruitings spec. - Hillside.

*Larix laricina*  
Found with acorn - Hillside:  
*Pinus strobus* - Hillside

Hillside - very dry open sunny spot.  
*Vaccinium Pennsylvanicum*

The variety with darker leaves and  
black berries. Vide "Emerson's Trees &  
Plants" 3rd edition - p. 457.



11  
 Melbourne 1st. July 25-1883.

A sunny day - but at home -  
 my trouble still continues. con-  
 tinued myself with analyzing &  
 pressing a few garden flowers  
*Campanula trachelium* }  
*Delphinium elatum* }  
 Philbrook garden -

11  
 Melbourne 1st. July 27-1883.

A cloudy, showery day. Feel  
 much better. Have staid at home.  
*Plantago major* -

Fruiting spike before the house.  
 I have just in press some seeds  
*Leucanthemum vulgare*, - Annie Greenough  
 brought from Lorrain with re-  
 markably brilliant red keys.



$\frac{7}{10} \times 1.4 = 98$

A very cool, cloudy day. Beautiful  
all day on the river. Last  
evening and this evening we have had  
open fires. I am much better to-day,  
and will pick up my story the very soon.

*Lathyrus latifolius.*

Mr. Minott's garden -

*Gaultheria procumbens* L.

Knobble-woods - just in flower -

*Anemone Virginiana*.

*Panicum xanthophyllum*, Gray, (Fide L. H. Bailey, si.)

Knubble-woods-

*Lycopodium clavatum*

*Coallorhiza multiflora*

✓ 7 22 80 -

*Thonella uniflora.*

Pine woods - Fruit.



*Polypodium virginicum*  
*side - ...*

... 31-1023.

A pleasant day with showers -  
 did not move ... to day.  
 ... as Wheeler's Pond. The Solidagos  
 are beginning to open -  
*Cephalanthus occidentalis* -

Philbrook Kenyard - Tide note

Aug 6-1882 -

- Hypericum perforatum*
- Spicaea salicifolia*
- Agrimonia eupatoria*
- Fraxinus sambucifolia*
- Spicantes Romanzoffiana*
- Solidago arguta* Ait. = *S. juncea* Gray

*Setaria glauca* (Fide L. M. Bailey)  
*Dry roadside*  
 (Fide A. Gray)

Dry ground by the roadside.

- Trifolium pratense*
- agrarium*

Pods & seeds - Roadside.



Sept. 1-1883.

A beautiful day, cool & cloudy.  
The day is the limit of my botanical excursions to-day. I have a class in Botany of four ladies, Mrs. Hattie Weeks, Mrs. R.C. Snow of Cambridge & Mrs. Parkhurst of Providence. We meet daily from 2 to 3 P.M. They have already had 10 lessons. To-day, we took a flower for analysis for the first time. *Rumex crispus*.

*Sagittaria variabilis* - var. *angustifolia*.  
(Fide L.H. Bailey, jr.)  
1st year.

*Lysimachia stricta*

*Hypericum ellipticum* (1-celled)

*Elodea virginica*

*Juncus Canadensis*, J. Gay. var. *coarctatus*, Engelm. Engelm. Oct 6-1883. (Fide Dr. Geo.)

*Dulichium spathaceum* (Fide L.H. Bailey, jr.) In the same.

See L.



Shelburne, N.H. Aug. 2-1883.

A - pleasant cool morning, rainy afternoon. I am feeling now quite well. This Am. I went into Green's woods and wandered about under the pines where I gathered a few plants -

*Mitchella repens*

*Pyrola secunda*

" *rotundifolia* *floribunda* -

*Gaylussacia procumbens*

*Cypripedium acaule*

*Linnaea borealis*

Reine woods. Fruiting Spec.<sup>s</sup>

*Hieracium scaberrimum*

*Oenothera biennis*

*Helianthus* *incurvus*, var. *glauca* -

*Lactuca Canadensis* - akenes -

Roadside -



Shelburne N. H. Aug 3 - 1883 -

A rainy morning - We walked to  
Mill Brook - In the P.M. went to  
Gorham - In the evening went to  
Abraham Leary's <sup>in Gilead</sup> with Gus where we  
saw ~~some~~ <sup>one</sup> ~~plants~~ about the Putnam road  
(Fruit concern) that has been seen in  
the neighborhood lately -

*Lysimachia ciliata* - fruit -

*Viburnum Opulus*

" *Antennoides* "

Roadside -

*Cirsium lanceolatum* -

Open field -

*Diplopappus umbellatus* -

Open ground -

*Inula Helenium* -

Roadside, near a country house -

*Fagopyrum tartaricum* esculentum -

Cultivated field. (See Oct. 2. Phil. etc.)

*Pilea pumila*

Moist shady place - Gilead. Me.



*Humulus Lupulus.*

Garden - Forham -

*Asclepias Cornuti.*

Two large leaves from a plant  
whose pod had soft spiny projections.

Fruiting Specimens.

These spec<sup>s</sup> came from a sandy hill  
side in Filled, Me. which is literally  
covered with this species of Milkweed.

It is all in fruit now, at least par-  
tially and has the spiny pods. These  
~~are~~ <sup>very</sup> my specimens gathered at  
the same spot, July 13<sup>th</sup> 1883.

Northburne, Vt. Aug 4-1883.

A cool pleasant day. This A.M.  
we drove round Dark Hill.  
Chelone glabra.

By Ingalls Brook -

*Laportea Canadensis.*

Roadside - Fence-row, Filled, Me



*Lychnis Fithago.*

Wheat Field - Fildes, Me. I found this  
Pink Weed growing in great abundance in  
amongst the wheat. I counted in one plot  
39 seeds which are black.

*Nuphar advena*

Fruit - Creek -

*Spiraea tomentosa.*

Open ground -

*Campanula aparinoides.*

Among grass near the creek -

*Brunella vulgaris.*

Nutlets and receptacles. Fildes, Me.

Floral leaves -

Sheburne N.H. Aug. 5-1883.

A pleasant cool day with showers.

This P.M. I walked 5 miles, going as

far as Hebbards up the road.

*Rhus Toxicodendron*

Fruiting spec. by the roadside.



*Lilium Philadelphicum*

fruiting spec. - Knutts. Woods.

*Spiranthes gracilis*.

*Microstylis ophioglossoides*.

Roadside, dry open sunny spot.

*Mentha Canadensis*.

*Oenoclea sensibilis*.

Wet ground.

*Asclepias incarnata*.

Creek, in a low meadow. I got this

fruit from the same place as the flowering

spec. of last July 11. The plant was

identified while in flower

*Syrinchium Bermuciana* -

Fruit - Roadside -

Shelburne N.H. Aug. 6-1883

(A very cool cloudy day. This A.M.  
I drove to Gorham to have a chest  
made for carrying my plants. Dunham  
the carriage maker is to make me one.  
I packed on my plants in the P.M.



*Aster paniculatus* - Radula (Fide A. Gray)  
 By the river - damp ground. (Fide L. H. Bailey, Jr.)

*Viburnum Opulus* -

Roadside -

*Melilotus alba*

Garden - not cultivated.

*Juglans cinerea* -

Garden - cultivated -

*Rhus typhina* -

Garden -

*Populus balsamifera* var. *Canadensis* -

Shady hillside at Chas. Philbrick's.

Shelburne, Vt. Aug. 7 - 1883.

A clear day, not too warm. This A.M. we drove to Chas. Philbrick's and visited his walk in the woods. It is most beautifully made and well kept, a visit -

*Gnaphalium decurrens*

Roadside - I met several specimens

all in bud -



*Aster acuminatus* - (Fide A. Gray)  
Woods.

*Aster macrophyllus* - (Fide A. Gray)  
Moist woods by Lead Mine Bridge.

*Aster puniceus* - Radula. (Fide A. Gray).  
(Fide L. R. Bailey, Jr.)  
Low thickets - Lead Mine Bridge.

*Plantago major* -

Wet, sandy soil, by Mill Brook.

*Thermopsis Canadensis* -

Sandy spot by Lead Mine Bridge.

*Cirsium arvense*

Roadside - Common -

*Antennaria margaritacea* -

Roadside - Very common - flowers

*Hieracium ~~leucum~~ paniculatum* -

Roadside - woods -

*Spiraea tomentosa*

*Holidago lanceolata* - very common (Fide A. Gray)  
Roadside.



Shelburne N.H. Aug 8 - 1883

A warm day. I have staid at home to-day, only, visiting the Knubble.

*Cornus alternifolia*  
*Apocynum androsaemifolium*  
*Vaccinium Vitis-Idaea*  
*Viburnum acerifolium*  
*Panicum xanthophyllum* }

Fruit - Knubble - Woods -

*Trifolium repens* -

Seeds & pods. Taken from flowers gathered a few days ago -

*Mimulus ringens* -

Fruit - Wet spot.

*Viola cucullata* -

Chastogenous flower & fruit  
Sandy soil - roadside -



second climb. Aug. 9-1883

An extremely hot day - This A.M.  
Loring & I drove to Sater and worked  
up to the top of 1st Mountain and into  
the valley between 1st & Middle Mts.

The heat was excessive and we suf-  
fered from it very much. As usual  
we met a bull in the pasture at  
the foot of the Mountain. We put a  
fence between him and us and then  
boldly challenged him - I gathered  
a number of plants and felt well  
paid for the climb.

*Geranium Robertianum*.....

Pasture in the shade of a large  
oak.

*Androsace cernua*.....

Woody Slope of 1st Mt.

*Trillium septentrionale*.....

*Goodyera repens* { tip with an ovate  
recurved tip }

*Monarda mollis*.....

*Lyopodium americanum*.....

*Aster macrophyllus*. (Fide A. Gray)

Woody Summit  
1st Mt.



Opening of the Evening Primrose.  
*Oenothera biennis* -

This morn. as I think I gave up  
 my overcoat, took a lantern and went up  
 the road a short distance to where the  
*Oenothera biennis* grows by the roadside, to  
 watch the opening of the flowers. I set  
 the lantern down close by the plant  
 and established myself in the grass  
 prepared to watch as long as was  
 necessary. Four or five of the buds were  
 large and on those especially I kept  
 my eyes. Nearly 15 or 20 minutes passed  
 without any apparent change, when I  
 noticed that the calyx lobes, which were  
 tightly wrapped about the flower, began  
 to split open, beginning at their base.  
 Their extremities still held fast and  
 through the opening appeared the yellow  
 petals, striving to break away from  
 their close prison. I watched in-  
 tensely, as I knew that the final  
 act was soon to come. At length



25 min. to 1/4 of 8 o'clock, the revolution  
 between the ends of the calyx lobes gave  
 way and within a rub the lobes  
 back,  $180^\circ$  from their former position,  
 that is, against the long slender tube of  
 the calyx. At the same time, the  
 4 yellow petals expanded rapidly, the  
 whole operation taking not more than  
 10 seconds. This sudden movement opens  
 the corolla about half way, its total  
 expansion requiring a half hour. The  
 calyx lobes fly back much faster than  
 the petals and at least some times  
 as far, showing that the rapid opening  
 of the flower is due, not only to the  
 pressure exerted by the petals, but  
 also to a strong elastic force inherent  
 in the calyx lobes. This force, unaided,  
 is probably not sufficient to open the  
 calyx lobes, but, combined with the out-  
 ward pressure of the petals, which  
 bursts the outer envelope - the whole  
 process is a most interesting one to  
 watch and well repays an hour's  
 witness.



Beautiful.  
 careful watching. For in the many instances in plants which we are too apt to overlook. All plants have motion, for growth is motion, but we are especially attracted to that which is most obvious to the eye. The Evening Primrose is one of our common household plants and here is an opportunity to study as beautiful an illustration of plant motion as can possibly be imagined.



bud...



flower.  
 Just after expansion -



flower.  
 Half hour after expansion -



Shelburne N.H. Aug 10-1883~

A warm day, light shower towards evening. This A.M., I staid at home writing. In the P.M. I took a short walk and at 5 o'clock went in bathing.  
*Cubus villosus*.

Roadside - fruit.  
*Lobelia inflata*

Shady roadside - fruit.  
*Cutellaria lateriflora*  
 Wet, shaded place ~

Shelburne, N.H. Aug. 11-1883~

A warm day. This P.M. I visited the Knubble and went in bathing.

*Cornus circinata*,  
*Smilacina racemosa*, }

Knubble - woods - fruit.  
*Salix lucida*,

*Ascyrum* and *Proseria* ~~folium~~, (*canadense*)  
*Desmodium illinoense*,  
 River bank <sup>of creek</sup> off the Knubble ~



*Calamagrostis Canadensis*, Beauv. (L. H. Bailey, jr.)<sup>Fide.</sup>  
River bank - abundant -

Salisbury N.H. Aug 12 - 1883.

A clear warm day. Took a short walk this A.M. Went in bathing in the P.M.

*Apocynum androsaemifolium*  
Fruit - Roadside.

*Mulgedium Encophyllum*  
*Lactuca Canadensis* }  
Roadside - achenes

*Spiranthes gracilis*.  
Fruit - Roadside.

*Bidens frondosa* -

River bank. - achenia 2-crowned, with  
inwardly-turned barbs on the margins -  
*Calamagrostis Canadensis*, Beauv. Fide L. H. Bailey, jr.)

*Scirpus Eriophorum*, Michx. (Fide L. H. Bailey, jr.)  
River bank -



Shelburne, N.H. Aug. 13-1883.

A cloudy day, slight showers in the P.M. Stayed at home all day preparing for a ball in the evening.  
*Euphatorium uliginosum* -

Roadside -

*Glyceria aquatica*, Sm. & Th. (fide L.H. Bailey, Jr.)  
 Wet ground - creek -

Shelburne, N.H. Aug. 14-1883.

A beautiful day. This A.M. a party of us went to Mill Brook, where we spent the day, leaning under the trees. We gave the Ladies in Botanical Park after dinner by the Brook. That makes 18 lessons they have received.

*Clematis Virginiana*,

♀ flowers - Roadside - rocky wall.

*Aster acuminatus* } (A. Gray fide)  
*macrophyllus* }  
 Moist shady bank.







*Euphorbia maculata* } (Fide S. Watson)  
 Spec. with smooth fruit  
 and similar seeds are in  
 the *Herbarium* -  
 Gray

*Calliandra* - *prostrata* found by the  
 R.R. track. Pods smooth.

*Idago bicolor*. (Fide A. Gray)

Roadside - Much branched -

*Potentilla tridentata*

Fruit - Roadside

In great abundance  
 across the river -

*Triticum repens*, L.

Found by the R.R. track.

*Juncus tenuis*, Willd.

Roadside -

Helburne C. H. Aug. 16 - 1883.

A Beautiful Day - I have stayed  
 about the house today, visiting the  
 Knubble and collecting plants from  
 a shaded creek near the house.

My chest has come from Sorham  
 and I think will suit me well.

*Epilobium angustifolium* }  
*Wesmodium acuminatum* }

Fruit - Knubble - woods -



*Trifolium*  
*Stellaria media*  
*Silene latifolia*  
Cultivated land.

*Antennaria*, *Prenanthes*, *Periploca*, *Rubus*  
Rubble-woods.

*Petaria viridis*, Beauv. } (Fide L. H. Bailey Jr.)  
*Phleum pratense*. }

*Gentiana linearis*  
*Solidago Canadensis* } (Fide A. Gray)  
*Paragonium simplex*

Wet ground by a creek. The *S.*  
grew close to the water, and was erect.

Lebourne, N. H. Aug. 17 - 1883.

A clear, rather warm day, cloudy  
part of the time. This A. M. Loring &  
I went up on to Mr. Cabot, he with  
his gun, I with my botanical apparatus.  
As usual I filled my press. This P. M.  
I spent arranging my plants.



*Epiphegus Virginiana*,

Woods, under a Beech Tree In bud.

*Monotropa uniflora*,

*Tridentalis Americana*,

*Moneses uniflora*,

*Cardamine hirsuta*,

*Spiranthes gracilis*,

Fruiting Spec. Woods.

*Microstylis corymbosa*

Aug, Sunny Spot.

*Pyrus Americana*,

Woods.

*Actaea alba*,

Deep woods - Fruiting Spec.

*Houstonia caerulea*,

Lat.

*Solidago bicolor*, (Fide A. Gray)

Open Spot in the woods.

*Viola cucullata*

Fruiting Spec. Spec, Shady Spot.

*Pteris aquilina*,

Open Field.

*Polypodium vulgare*.

Rocks - Woods.



2.  
*Phegopteris polypodioides*,

*Dryopteris*.

*Asplenium ~~platyneuron~~ Filix-foemina.*

*Aspidium ~~platyneuron~~ var. ~~platyneuron~~*

Damp woods.

*Nicksonia punctilobula*,

Shady wood.

Shelburne, N. H. Aug. 18-1883.

A very warm day - Shower towards evening - I spent most of the day packing & playing Tennis -  
*Horaceum Secabrum*.

*Triticum repens*,

*Agrostis vulgaris*, With. (Fide L. H. Bailey, Jr.)

Roadside -

*Bromus ciliatus*, L. (Fide L. H. Bailey, Jr.)

Roadside -



Shelburne, N. H. Aug. 19. 1883.

A pleasant day - warm. Stayed at home to-day packing. Took a short-walk this A.M. with Loring towards Taber. This evening, after supper, Loring & I took a drive down the road as far as Abram Leary's.

*Gnaphalium decurrens* -

Open field.

*Smilax bifolia* -

Shady hillside. - Fruit -

*Eratægus coccinea* -

Hillside. - Fruit -

*Vaccinium vacillans* -

I found for the first time here a few plants of this genus on a hillside back of the house. The Vacc. Penn. is almost past fruit, while these plants were mostly in young fruit. *gracilifolia*, var. *melanocarpa* -

By Wheelers Pond.

*Cassandra calyculata* -

Wheelers Pond -



*Taccinium Oxycoccus* -  
                   *macrocarpon* -  
                   Wheeler's Bog -  
*Ostrya Virginica*.  
       Fruit Hillside

I put in press 1000  
 spec. of *Ostrya* in  
 fimbriate gathered July 15  
 and allowed to dry  
 in my room

Cambridge, Mass. - Aug 20-1883.

An intensely hot day. Left Phil-  
 borne this A.M. at 9-21 and reached  
 Fitchburg at 6 P.M. I filled my box  
 full with my plants.

Cambridge, Mass. Aug 21-1883.

An intensely hot day. Mercury at  
 5-45 A.M. 78°. Spent the day in  
 moving our furniture from Mrs. Muntz  
 into our new house. My Herbarium  
 went well, though I was obliged to  
 unload part of the plants.  
*Leontodon autumnale*.  
*Akenia*. ~ Lawn ~



Cambridge, Mass. Aug. 22 - 1883

A hot day, over  $70^{\circ}$  in the shade.  
 Went over my plants this P.M. and  
 made a call on Bailey this evening.  
 He went over a number of plants with  
 me, confirming my names.

Cambridge, Mass Aug 23 - 1883

A hot day. This A.M. I took  
 Dr. Frey over the Colleges. He visited  
 Agassiz's Museum where I saw a spec. of  
*Felix concolor* and *Ursus Americanus*  
 both of which are in the woods at  
 Shelburne, Vt. This P.M. I went  
 to the Bot. Gar. and saw my friends.  
 I got a number of plants there  
*Ranunculus capillare*, L. (Fide L. H. Bailey, Jr.)  
 Roadside.



Cambridge, Mass. Aug. 24-1883.

A hot day. This A.M. I busied myself about our new house. In the P.M. I went to the Gardens and took Beck, to the Glacialis, where we got several plants.

*Panicum languinale*, L.  
Yard (Fide L. H. Bailey, jr.)  
" *Cirs. Galli*, L.  
Roadside.

*Eragrostis pectinacea*, Gray  
*Panicum dichotomum*, L.  
" *agrostoides*, Spreng. (Fide L. H. Bailey, jr.)  
*Paspalum setaceum*, Michx.  
Dry field.

*Cyperus filiculmis*, Vahl. (Fide L. H. Bailey, jr.)  
Dry field.

*Oleocharis acicularis*, R. Br.  
*Sporobolus serotinus*, Gray (Fide L. H. Bailey, jr.)  
*Glyceria obtusa*, Trin.

Wet ground by Fresh Pond. and  
The Glacialis, Camb.



Cambridge, Mass. Aug. 25. 1883.

A pleasant day, not very warm.  
 I have this A.M. analyzing my  
 grasses of yesterday. I also can-  
 not get a *Scirpus nudsonianus* - I am  
 sure we got in the last of  
 yesterday near Fresh Pond. 1 mi.  
 W. N. I went to the Bot. Gar. where  
 Mr. Bailey had some seeds for  
 me, while I got a few from the  
 garden -

Cambridge, Mass. Aug 26-1883.

A pleasant day, not very warm.  
 This A.M. I called on Mr. Bailey.  
 He dined with us and after din-  
 ner we looked over a collection of  
 Vases & Ledges of Horace Mann.  
*Eragrostis poaeoides*, <sup>(Pennis.)</sup> var. *megastachya*.  
*Imbristylis capillans*, Gray  
 Dry roadside -



*Hordeum muricatum*, (Fide A. Gray)

dry seed -

*Echinochloa obtusa*, Polak.

*Cenchrus pennis*, Polak.

Bot. Soc. growing naturally.

Cambridge Mass. Aug. 7, 1883.

A pleasant day. This A.M.  
I poisoned plants. This P.M. I  
went over some grasses in A. Mann's  
collection.

Cambridge Mass. Aug. 20, 1883

A cool day, very clear. This  
A.M. I finished going over A. Mann's  
collection of grasses and poisoned  
myself. This P.M. I went to  
the Audens and drove Mr.  
Bailey to Fresh Pond where we  
got a few plants.



*Panicum, "labrum, Tanderi"*

*Xanthoxylum*

*Panicum distichotomum, L. (See L. Bailey, p.)*

*Proserpinaca palustris*

*Thalictrum* <sup>Comuti. L.</sup> ~~purpureum~~ (Fide L. H. Bailey, p.)

*Alnus serrulata*. (Fide Sereno Watson)

*U. sp. incerta, var. ...*

Low ground by Fresh Pond.

Cambridge, Mass. Aug 27-1883.

A cold & stormy day.  
poisoned plants this A.M. This P.M.  
I went to the Bot. Gar. and got  
15 different species of *Allies* & *Solidagos*  
now in bloom, all of which have been  
recently identified by Dr. Asa Gray.

Cambridge Mass. Aug. 30-1883.

A very pleasant day. This A.M.  
I poisoned plants. Drove Father to  
Belmont where we saw the peat  
fields burning. They have been on



in the ... ..  
from the ... ..

18 ... ..  
Poly ... ..  
... ..  
... ..  
... ..

Sept 31  
... ..  
Sept 1<sup>st</sup> 1883.

A pleasant day. This P.M. I  
went to ... from ... and  
came out here with Judge J. Churchill  
to his house on Meeting House  
Hill to spend Sunday. We took a  
drive ... ..  
which runs over the ... ..  
between Rochester & Milton. Near  
there we gathered quite a number of  
very nice plants. We then drove  
to Cedar Grove Cemetery through  
which runs the Railroad and ...  
again. I found many new plants.  
We spent the evening trying out our spoils.



*Lygisma* ~~rectum~~ <sup>remissimum</sup> (Fide L.H. Bailey, jr.)

Dry mud - Milton.

*Lygisma dumetorum* var. *Scudder*, Gray  
 Dry ground - Milton

*Eleocharis acicularis*

Dry mud - Milton

*Eleocharis acicularis*

<sup>Borders of</sup> Dry mud - Milton

*Spartina cynosuroides* (Fide L.H. Bailey, jr.)

Dry Sandy Soil, by Reposee-River

Worcester -

*Spartina stricta*, var. *glabra* (Fide L.H. Bailey, jr.)

Banks of Reposee-River, Worcester

within Tide Limit -

*Eleocharis acicularis*

Dry mud, Worcester

*Eleocharis acicularis* (Fide A. Gray)

Borders of mud - Milton

*Andropogon scoparius* (Fide L.H. Bailey, jr.)

Dry ground - Worcester

*Eleocharis acicularis*

*Eleocharis acicularis*

*Eleocharis acicularis*

*Cyperus stigosus* (Fide L.H. Bailey, jr.)  
*filiculmus*



*Cristida tibetana*

Key, Sandy Point - Dorchester  
*Atriplex canescens*. (the S. Western)  
 Fall March - Dorchester.

Amherst, Mass. Dec 2 - 1883.

[illegible]







*Juncus subsecans*.

*Limonium* ~~leucostachyum~~

*Mitella altissima* - Walpole. (Fide A. Gray)

" *neglecta* - (Low ground) (Fide A. Gray)

*Galium circaezans*. (Fide S. Watson)

Woods - Sharon -

*Gerardia pauciflora*

(Roadside - Sharon -

*Myriophyllum ambiguum*, var. *limosum* -

Rooting in the mud by a muddy  
pond - Sharon.

*Galium verum* -

*Poa pratensis*, L. (Fide A. Gray, who calls it a dried up spec.)

Sandy soil, by the R. R. Station - Dedham.

Cambridge Mass. Sept. 3 - 1883.

A pleasant cool day. Returned  
from Worcester this A. M. Visited  
the Bot. Gardens where I identified  
some of my plants - Did some  
labelling this evening -



Cambridge Mass. Sept 4-1883.

I have been down to the  
Bot. Garden this A.M. I found  
the plants there very fresh  
and collected on the rocks this  
morning.

*Phragmites Canadensis* - (Fide A. Gray)

Low ground - Fresh Pond

*Phragmites Canadensis* (

*Phragmites Canadensis* L. (Fide L. B. Bailey)

" *Phragmites Canadensis* L. (Fide L. B. Bailey)

Cambridge, Mass. Sept. 5-1883

A clear bright day. I did some  
labelling to-day. One house is fast  
drawing to completion.

Cambridge Mass. Sept 6-1883

A clear, cool day. I spent a good  
deal of time labelling to-day.



Cambridge, Mass. Sept. 7-1883.

A clear, cool day. Spent the morning  
in the house. In P.M. & evening I have  
been hard at work labelling plants.

Cambridge, Mass. Sept 8-1883.

A cool day. Labelled plants this  
A.M. Before breakfast and this evening.  
Spent the rest of the day in the house.

Cambridge Mass. Sept 9 1883.

A clear, cool day. Spent the A.M.  
in poisoning & labelling plants. Took  
a drive up Concord Rd. in the P.M. and  
gathered some Asters for Dr. Gray.  
*Asclepias incarnata* var *pulchra* -  
Low ground - Fruit -  
*Arisaema triphylla*  
Low ground - Belmont -



Cambridge, Mass. Sept. 10 - 1883.

A cool day. Worked on my bookcases  
at our house all day. This evening I  
labelled & poisoned plants.

Cambridge, Mass. Sept. 11 - 1883

A cool day. No rain yet. Worked  
at the house in the A.M. - In the P.M.  
went to the Bot. Gar. where Dr. Gray  
went over all my Solanaceae & Aster  
which I have collected this summer.  
I got a few plants from the Garden.  
Labelled this evening.

Cambridge Sept 12-13-14-1883. Mass.

Light rain. Worked at our house  
and did some labelling & poisoning.

*Ailanthus glandulosa*.

Chas. Deane's grounds. Cultivated.  
Fruiting spec. Sept. 14~



Sept. 15 - 1883.

A warm day - Visited the Bot.  
Garden this A.M. where I identified  
various plants. Dr. Gray has  
promised me Mounting Paper and  
Press Boxes at much cheaper  
rates than I have been paying.  
*Aster vimineus*, Lam. (Fide Asa Gray)  
Chas. Deane's lawn - Dry Soil -

Cambridge, Mass. Sept. 16 - 1883.

A rather warm day - Still no  
rain - I have looked over Horace  
Mann's Collection of Grasses to-day  
and labelled those I want for my  
Herbarium.

*Erigeron Canadense*  
*Symbrium officinale* }

Dry Soil in father's back yard.

*Fragilis*, L. (Fide L. H. Bailey, jr.)

Growing 1/2 c. from the tree near the  
barn door at father's. Fide May 11 - 1883.



Cambridge Mass. Sept. 17 1883

A pleasant day. To-day I sorted and labelled all my Grasses from the Mann's collection and in the evening I took them to Mr. Bailey who verified them all for me. I gave a number of duplicate grasses.

Cambridge - Mass - Sept. 18 - 1883

A clear cool day after the thunder storm of last evening. Went to the school to-day and in the P.M. worked at the house.

Cambridge - Mass. Sept. 19 - 1883.

A clear cool day. Went to the school this A.M. Worked at the house this P.M. In the evening I cleaned up my botanical apparatus & took to the new house.



Cambridge, Mass. Sept. 20 - 1883.

A clear day. Spent all day  
getting ready our new house.  
*Malva rotundifolia* -

A fruiting specimen from Mr.  
John Brewster's grounds, near the  
house where it grows in abundance.

Cambridge, Mass. Sept. 21 - 25 - 1883.

The only botanical work I have done  
has been to stamp a number of my  
botanical sheets with my new stamp  
(Verified by comparison at Gray Herbar-  
ium by Walter Deane.)

Sept. 21. we  
moved into our new  
house, Brewster Pl.  
Camb. Mass.

Cambridge, Mass. Sept. 26 - 1883.

*Helianthus Tuberosus* -

Last May, I got some artichokes  
at the Bowdoin Market in Boston  
and had them planted in the garden, at  
father's. Today I put a flowering spec. in press.











Cambridge, Mass. Sept. 27-28-1883.

Stamped some sheets -

Cambridge, Mass. Sept. 29-1883.

A clear cool day with rain in the evening. This A.M. I took the train from the Boston & Prov. Station at 9 o'clock and reached Dedham at 3-30. There Julius Wakefield, one of our school boys met me with a horse & carryall. We took a lovely drive through Dedham, Hyde Park, Milton, Canton back to Dedham. The changing foliage was remarkably beautiful. I gathered a number of plants. Leaving the horse at the house we went to the river (Charles River) and had a row some mile & a half up stream. The scenery was very fine. Now we passed through a low meadow, overgrown with grass and various kinds of vegetation drooping & falling as autumn advances, now under a stone bridge, now past a sloping hillside



covered with trees of most brilliant colors  
the most conspicuous among which was  
the Tupelo which has a foliage in au-  
tumn most, excelling the red of the *Acer*  
*rubrum*. The banks of the river were  
lined with plants of various kinds, mostly  
in fruit. I noticed particularly the Wild  
Rice (*Eleusine aquatica*) which was  
planted there by parties wishing to  
attract game birds in the fall. In  
the P.M. after a hearty dinner we  
strolled through the woods some 4 miles  
where I admired especially the changing  
foliage. Before supper we walked through  
the corn and saw the various milldams,  
and churches. I returned home at  
8.30 P.M. reaching the house at 10 o'clock.

- Ilex verticillata*.
  - Aster undulatus*. (Fide Asa Gray)
  - " *miser* . (Fide Asa Gray)
  - " *paniculatus* Lam. (Fide Asa Gray)
- Roadside - Milton, Mass.



*Pontederia cordata*, (fruit)  
*Peltandra Virginica*, (fruit)  
*Asclepias incarnata*, var. *pulchra*, (fruit)  
*Polygonum acre*, (fruit)

By Charles River, Dedham -

*Polygonum tenue*  
*Hamamelis Virginica*  
*Solidago caesia*  
*Galium pilosum*, (fide Asa Gray)  
*Castanea vesca*  
*Fibrium acerifolium*

Woods - Dedham -

Cambridge, Mass. Sept. 30 - 1883.

A rainy day. Analyzed and laid out my plants of yesterday.

Cambridge, Mass. Oct 4 - 1883.

Have scarcely seen my plants since Sunday. The weather is growing cold and vegetation is beginning visibly to fade.



*Antennaria biennis*.

I found a small clump of this  
wormwood consisting of 8 plants by the  
R.R. track at Camb. crossing in Camb.  
port, a few rods from Main St. I  
also found a single specimen which  
I did not press, by the sidewalk  
between the Crossing & Boston bridge.

Cambridge, Mass. Oct 6 - 1883.

A list of plants collected by R. W.  
Larabee in Lake View, Ill. & at  
Paul Smiths N. Y. in July & Sept. 1883.

*Ptelea trifoliata*.

*Hypericum Kalmianum*.

*Lithospermum hirtum*.

*Potentilla fruticosa*.

*Lathyrus palustris*.

*maritimus*.

Shore of Lake Michigan, Lake View, Ill.

*Cacalia tuberosa*.

Wet meadow. Lake View, Ill.  
July 14.



(*Eriophorum Virginicum* (Fide L. & Bailey, jr.)  
 Sept. 13.

*Godzera*  
*Tridentalis Americana*

Sept. 18.

*Ledum latifolium*

Sept. 24.

Paul Smith's.

St. Regis Lake,

Adirondacks.

Franklin Co.,

N. Y.

Cambridge, Mass. Oct. 13 - 1883.

Miss P. Duke is going to mount  
 all my plants. I shall keep a record  
 of the number of sheets and specimens  
 with the date of mounting.

Sheets - - - Specimens - - -

|         |    |    |   |
|---------|----|----|---|
| Oct. 13 | 11 | 61 |   |
| " 15    | 69 | 94 | - |
| " 22    | 47 | 53 | - |
| " 24    | 52 | 71 |   |



# Sheet — Specimens.

|         |   |      |   |      |   |
|---------|---|------|---|------|---|
| Oct. 26 | — | 51   | — | 60   | — |
| " 30    | — | 53   | — | 82   | — |
| Nov. 1  | — | 53   | — | 76   | — |
| " 2     | — | 48   | — | 75   | — |
| " 8     | — | 39   | — | 44   | — |
| " 12    | — | 44   | — | 88   | — |
| " 15    | — | 47   | — | 83   | — |
| " 16    | — | 35   | — | 47   | — |
| " 20    | — | 64   | — | 92   | — |
| " 23    | — | 32   | — | 60   | — |
| " 30    | — | 52   | — | 89   | — |
| Dec. 3  | — | 36   | — | 57   | — |
| " 10    | — | 65   | — | 89   | — |
| " 12    | — | 35   | — | 74   | — |
| " 17    | — | 37   | — | 56   | — |
| " 21    | — | 36   | — | 49   | — |
| " 26    | — | 36   | — | 65   | — |
| Jan 2   | — | 43   | — | 55   | — |
| " 8     | — | 29   | — | 110  | — |
| " 26    | — | 20   | — | 24   | — |
| " 29    | — | 26   | — | 35   | — |
| " 31    | — | 25   | — | 34   | — |
| Feb. 5  | — | 20   | — | 35   | — |
| Total = |   | 1140 |   | 1688 |   |



|           | ~ Sheets ~ | <u>1884</u> | Specimens ~ |
|-----------|------------|-------------|-------------|
| Feb. 19 ~ | 33 ~       | —           | 41 ~        |
| " 27 ~    | 39 ~       | —           | 48 ~        |

Thin Piece. mounted

|           |      |   |      |
|-----------|------|---|------|
| Apr. 12 ~ | 37 ~ | — | 56 ~ |
|-----------|------|---|------|

|         |      |   |      |
|---------|------|---|------|
| Total = | 1249 | — | 1833 |
|---------|------|---|------|



Cambridge, Mass. Oct. 20. 1883.

*Robinia Pseudacacia* -

Fruiting spec. growing wild in Col. Higginson's back yard. When we moved to Waukegan, Ill. in 1859, this tree was thoroughly naturalized on our grounds, growing in great abundance on the hillside. In course of time the Bores destroyed them to such an extent that they were cut down. Those on Col. Higginson's grounds which adjoin father's are a remnant of that grove -

A list of Plants collected on Prairie Land in No. Colorado, by Miss Anna L. Spear, in July & Aug. 1883. Identified with the assistance of Dr. C. A. Gray & Mr. S. S. Dalton.

*Delphinium azureum*, Michx.  
*Argemone hispida*, Gray.  
*Cleome integrifolia*, Torr. & Gr.  
*Vaccaria vulgaris*, Host.  
*Arenaria Hookeri*, Nutt.



113.  
*Malvastrum coccineum*, Gray.  
*Geranium caespitosum*, James.  
*Lupinus Plattenis*, Watson.  
*Medicago sativa*, L.  
*Psoralea lanceolata*, Pursh.  
" *floribunda*, Nutt.  
*Petalostemon violaceus*, Michx.  
" *candidus*, Michx.  
*Astragalus adsurgens*, Pall.  
*Glycyrrhiza lepidota*, Nutt.  
*Oenothera pinnatifida*, Nutt.  
" *coronopifolia*, Torr. & Gr.  
" *albicaulis*, Nutt.  
*Gaura coccinea*, Spach.  
*Mentzelia ornata*, Torr. & Gr.  
" *pumila*, Nutt.  
*Liatris punctata*, Hook.  
*Aster canescens*, Pursh.  
" *commutatus*, Gray.  
" *adscondens*, Lindl.  
*Bigelovia Douglasii*, Gray.  
*Grindelia squarrosa*, Dunal.  
*Chrysopsis villosa*, Nutt.  
*Lepachys columnaris*, Torr. & Gr.



*Trelianthus petiolaris*, Nutt.  
" *pumilus*, Nutt.  
*Bahia oppositifolia*, Torr. & Gr.  
*Achillea Millefolium*, L.  
*Artemisia frigida*, Willd.  
*Senecio Douglasii*, DC.  
*Lygodesmia juncea*, Don.  
*Plantago Patagonica*, Jacq. var. *gnaphaloides*, Gray.  
*Pentstemon caeruleus*, Nutt.  
*Orthocarpus luteus*, Nutt.  
*Verbena bracteosa*, Michx.  
*Eutrichium Jamesii*, Torr.  
*Phacelia circinata*, Jacq.  
*Oxybaphus nyctagineus*, Sweet.  
" *angustifolius*, Sweet.  
*Ubronia fragrans*, Nutt.  
*Oenopodium leptophyllum*, Nutt.  
*Eriogonum Jamesii*, Benth.  
" *microthecum*, Nutt. var. *effusum*, Torr. & Gr.  
*Rumex venosus*, Pursh.  
*Yucca angustifolia*, Pursh.  
*Tradescantia virginica*, L.  
*Bouteloua oligostachya*, Torr.

These plants are in my Herbarium, etc.



A list of plants collected in  
Hampton & Rothesay, Kings Co., New  
Brunswick, in July & Aug. 1883, by Arthur  
P. Chadbourne.

Hampton is the chief town of the county,  
situated on the Kennebecasis River, 22 miles  
N.E. of St. John. The water of the river  
at Hampton is very slightly brackish.

Rothesay is a post-village on the same  
river, which at this point is quite brackish.  
The village is 9 miles N. of St. John.

*Anemone Pennsylvanica*, L.

Wet meadows, common to the river  
grows on the margins of the slumps  
Common.

*Thalictrum Cornuti*, L.

*Ranunculus repens*, L.

Fresh-water marsh, sandy soil.  
Common in a small place.

*Aconitum Napellus*, L.

Height 4 ft. (escaped) <sup>Groundside to</sup>  
R. R. track  
Not common.

*Nasturtium palustre*, DC.

Sandy river-marsh,  
not very common.

Grown in garden but  
"in wild" here.

*Viola tricolor* L. var. *arvensis*, Gray - (Cult.)

*Drosera longifolia*, L.

Wet meadow, common.

*Arenaria catariflora*, L.

Wet meadow pasture by the river

*Cerastium viscosum*, L.

Rather common.  
Sweet & shady hillside.  
Red clay soil - common.  
Also in meadows.

*Spergula arvensis*, L.

Cleaving; common

*Geranium Robertianum*, L.

Among masses of juncus  
broken rocks in rocky  
shady wet hillside - common.

*Opalis acetosella*, L.

Wet meadow, common.



- Oxalis stricta*, L. Wet meadow pasture by river. Common
- Vicia Cracca*, L. Sandy track, salt river.
- Spiraea salicifolia*, L. Road-sides & marshes
- Potentilla Norvegica*, L. Rocky hill-side in wet forest, shady; very common. Bush 20-40 high.
- " *fruticosa*, L. Sandy river; common.
- " *Anserina*, L. Sandy track. common.
- Fragaria vesca*, L. Rocky hillside, in the open, with spruce woods not abundant. very common.
- Circaea alpina*, L. (Rocky hill-side at ground level) beech forest. very common.
- Oenothera Oakesiana*, Robbins. Rare.
- " *pumila*, L. Sandy river.
- Anethum graveolens*, L. Gravelly streambeds, very common.
- Aralia hispida*, Michx. Spruce-clearing. Rather common.
- Linnaea borealis*, Gronov. Shady wet hollow under spruces. Very common!
- Galium asprellum*, Michx. Sandy soil, spruce woods. Not common.
- " *trifidum*, L. Forest meadows, panegyric.
- " *triflorum*, Michx. Rocky hill-side under beech-forest. - rather common
- Aster acuminatus*, Michx. Common, fields etc.
- Solidago bicolor*, L. Sandy track common.
- Achillea Millefolium*, L.
- Campanula rotundifolia*, L. Pastures (high) with white weed and fully as plenty.
- Pyrola elliptica*, Nutt. Shady damp hillside.
- Lysimachia stricta*, Ait. Humid meadows, sand. common
- Utricularia cornuta*, Michx. Wet meadows, common
- Mimulus ringens*, L. Fresh water marsh, sand. Rare: only saw one.



- Veronica Americana*, Schweinitz. Low mt. pastures  
Common.
- " *Scutellata*, L. <sup>Field near river bank, soil</sup>  
Common
- " *officinalis*, L. <sup>hill-sides sunny rocks</sup>  
Common
- Euphrasia officinalis*, L. <sup>sandy bank side</sup>  
Local & common.
- Mentha Canadensis*, L. <sup>Damp brushy woods</sup>  
Very common & abundant
- Scutellaria galericulata*, L. <sup>Sandy soil</sup>  
No common.
- <sup>Barn-yard weed.</sup>  
<sup>Common.</sup> *Galeopsis Tetrahit*, L.
- <sup>In four or five places,  
by river-bank, in both  
sandy & rich loamy soil.</sup> *Myosotis palustris*, Withering. var. *capa*, Gr.
- <sup>Common.</sup> *Alisma Plantago*, L., var. *Americana*, Gr.
- <sup>Sandy river bank</sup> *Sagittaria variabilis*, Engelm., var. *hastata*, Engelm.
- <sup>Very common.</sup> *Habenaria psycodes*, Gr.
- Sisyrinchia Bermudiana*, L. <sup>Sandy road-side</sup>  
Common
- Allium Schoenoprasum*, L. <sup>Sandy soil each</sup>  
Not common & rather local.

These plants are in my Herbarium, W.D.

Cambridge, Mass. Oct. 22.

*Plantago major*, L.

(Has. Deane's grounds - Rod & seed.)



Cambridge, Mass. Oct. 28-1883.

This P.M. Rollin Larabee & I took a walk over Brookline Bridge and along Brighton Ave toward Boston. I got some salt-marsh plants well in fruit on the banks of the river near the dividing line between Boston & Brighton.

*Suaeda maritima*

*Suaeda maritima*

*Iva frutescens*

*Spergularia media*

Bank of Charles River near the dividing line between Brighton & Boston

Cambridge, Mass. Nov. 2-1883.

*Gleditsia triacanthos*

Pods from trees in Cambridge near St. John's Church.

Cambridge, Mass. Nov. 4-1883.

*Gleditsia triacanthos* - seeds from same trees as the pods of Nov. 2<sup>nd</sup> last.



Cambridge, Mass. Nov. 11-1883.

I took a drive this A.M. with W<sup>m</sup> Brewster through Belmont & Lexington. I was impressed with the bright red berries of the *Ilex verticillata*, the beautiful yellow of the changing needles of the *Larix Americana* and the pale red of the changing *Berberis communis*.

*Ligustrum vulgare*.

Fruit-Roadside - Belmont. Common.

Cambridge, Mass. Nov. 11-1883.

*Robinia Pseudacacia* -

Pods and seeds from the same spot as those gathered last Oct. 20.

*Gymnocladus Canadensis*.

Pods and seeds from a tree in the Observatory grounds. Cultivated.



Cambridge, Mass. Nov. 13<sup>th</sup> 1883.

*Datura Tatula*, L

Fruit - Growing in the back yard  
behind the school in 20 Boylston St.  
Boston - The flowers are, according to  
the Annie Stewart's statement, a  
light blue.

Cambridge, Mass. Nov 25<sup>th</sup> 1883

{ *Liriodendron Tulipifera*,  
*Diospyros Virginiana*,  
Fruit - Botanic Garden.

Cambridge, Mass. - Nov. 29 - 1883.

|                      |                 | Sheets     | Specimens  |
|----------------------|-----------------|------------|------------|
|                      | I mounted today | 24         | 73         |
| Nov 30 <sup>th</sup> | "               | 3          | 4          |
| Dec 7 <sup>th</sup>  | "               | 47         | 76         |
| " 10 <sup>th</sup>   | "               | 2          | 2          |
| " 14 <sup>th</sup>   | "               | 5          | 6          |
| " 15 <sup>th</sup>   | "               | 21         | 45         |
| " 23 <sup>rd</sup>   | "               | 4          | 5          |
|                      |                 | <u>106</u> | <u>211</u> |



|         |   |   |   |        |   |   |           |
|---------|---|---|---|--------|---|---|-----------|
| Dec. 31 | - | - | - | Sheets | - | - | Specimens |
|         | - | - | - | 7      | - | - | 10        |
| Jan. 1  | - | - | - | 31     | - | - | 46        |
| Mar. 1  | - | - | - | 2      | - | - | 5         |
| Apr. 12 | - | - | - | 1      | - | - | 1         |
| " 25    | - | - | - | 26     | - | - | 45        |
| May 4   | - | - | - | 1      | - | - | 1         |
| total   |   |   |   | 174    |   |   | 320       |

~ ~ Cambridge - Mass. - May 7 - 1884 ~

Synopsis of Mounting from the Fall of  
1883 through the Spring of 1884 ~

|        |   |           |   |                  |
|--------|---|-----------|---|------------------|
| Sheets | - | Specimens | - | New Genera added |
| 1423   | - | 2153      | - | 207              |



## Synopsis of the plants in my Herbarium -

Genera

Spring 1882 - - 343

|           |   |     | Species |       | Varieties |     |                                                            |
|-----------|---|-----|---------|-------|-----------|-----|------------------------------------------------------------|
| Apr. 1883 | - | 442 | -       | 978   | -         | 28  | { A Spec. includes a spec. {<br>(represented by var. only) |
| May. 1884 | - | 649 | -       | 1555* | -         | 83  | Var. representing<br>Spec. not in my Herb. Var. 38. -      |
| May. 1885 | - | 798 | -       | 2320* | -         | 96  | ~ 90 - 2 -<br>Crosses                                      |
| May 1886  | - | 844 | -       | 2510* | -         | 88  | ~ 118 - 5                                                  |
| May 1887  | - | 881 | -       | 2709* | -         | 85  | - 143 - 8 -                                                |
| May 1888  | - | 921 | -       | 2939* | -         | 90  | - 170 - 9 -                                                |
| May 1889  | - | 933 | -       | 3000* | -         | 97  | - 183 - 10 -                                               |
| May 1890  | - | 959 | -       | 3133  | -         | 127 | - 188 - 11                                                 |

\* Excluding Species from the Joad Collection.



202.  
List of Plants collected by Miss Helen R. Dexter in  
Santa Barbara, Cal., with a few exceptions as I specified  
below, in the spring of 1884. In herb.

*Clematis lasiantha*, Nutt.

*Ranunculus Californicus*, Benth.

*Delphinium* (?) Mr. Watson cannot determine this  
without better fruit.

*Eschscholtzia Californica*, Cham.

*Barbamine pauciflora*, Benth.

*Silene laciniata*, Cas.

*Malva borealis*, Wallman.

*Sidalcea humilis*, Gray.

*Erodium moschatum*, L'Her.

*Ceanothus verticillatus*, Nutt.

" *spinosus*, Nutt.

*Trifolium cilicorne*, Nutt.

" *pauciflorum*, Nutt.

*Medicago sativa*, L.

*Hosackia strigosa*, Nutt.

" *glabra*, Torrey.

*Lathyrus vestitus*, Nutt.

*Prunus ilicifolia*, Walp.

*Heteromeles arbutifolia*, Roemer. Oct. 30-1883.

*Tellima cymbalaria*, Walp.



*Ribes speciosum*, Pursh. Oct. 30 - 1883.

" *Mengesii*, Pursh.

*Oenothera chrysantha*, Hillebrand, var. *sofisticosa*, Wats.

*Megarrhiza Californica*, Torr.

*Mesembryanthemum crystallinum*, L. (Los Angeles, Cal. May 2-1884 Col. H.R.D.)

*Sanicula laciniata*, Hook. & Arn.

*Sambucus glauca*, Nutt.

*Erigeron philadelphicus*, L.

*Luzia platyglossa*, Gray.

*Penegasia carpesioides*, DC.

*Baeria gracilis*, Gray.

*Briophyllum confertiflorum* Gray (*Baeria confertiflora* DC.)

*Sonchus asper*, Villars.

*Hedecea pinnatifida*, L. var. *microfolium*, Gray.

" " " " *macrocarpon*, Gray.

*Anagallis arvensis*, L.

*Gilia dianthoides*, Endl. (Los Angeles Cal. May 2-1884 - H.R.D.)

*Tremophila aurita*, Lindl.

" *insignis*, Dougl.

*Phacelia tanacetifolia*, Benth.

*Borrago officinalis*, L.

*Eutrichium nothofolium* Gray. (*E. fulvum*, & DC.)

*Convolvulus occidentalis*, Gray.

*Collinsia bicolor*, Benth.



- Minimus glutinosus* Wendland, var. *viridis*, Gray  
*Castilleja parviflora*, Bongard.  
*Orthocarpus purpurascens*, Benth.  
*Andibertia grandiflora*, Benth.  
*Stachys bullata*, Benth.  
*Verbena ciliata*, Benth. (Texas - May 1884 Coll. H.R. Dexter)  
*Ebronia umbellata*, Lam.  
*Umbellularia Californica*, Nutt.  
*Artemisia Californica*, Hook.  
*Sisyrinchium bellum*, Watson.  
*Calochortus splendens*, Dougl.  
*Polypodium Californicum*, Kaulfuss  
*Dillenia anchromelaefolia*, Fee.  
*Aspidium rigidum*, Swartz, var. *argutum*, Eaton.  
 — — — — —

Cultivated plants from Santa Barbara, Cal. collected by  
 Miss H.R. Dexter in the Spring of 1884. In Herb.

- Schinus Molle*, L. (Oct. 8 - 1883)  
*Eucalyptus globosus*, Lab. (Oct. 3 1883)  
*Grevillea robusta*, Allan Cunningham.  
*Casuarina stricta*, Ait.



Walter Deane -

38 Concord Co.,

Cambridge,

Apr. 1884.







# Botanical Notes.

1

Notes on a Lecture by Prof. Goodale - Apr. 16<sup>th</sup> - 1881.

Subject -

Some of the Relations of Plants to Gravitation.

I. Introductory examination of the phenomena of Growth.

1. The development of new cells.

2. " increase of cells in size & thickness of wall.

If we examine a single cell in a growing plant and study it, we shall find out how the whole plant grows, for the whole plant in all its parts is but an accumulation of cells. A cell is full of living matter, in a certain stage of its growth, called protoplasm. If we examine this carefully, we shall see that this matter is the thickest in the centre. This central part is called the nucleus, i.e. (●). This nucleus is found to be marked by lines running from one side to the other, parallel to each other, called Zones, and by lines running in the opposite direction, called lines in protoplasm. In a growing cell, one of these zones elongates more and more, till finally a complete division is formed across the cell i.e. (●) (●) (●). Thus two cells are formed, each attaining the size of the parent cell, so that Cell Multiplication and Cell Division are identical.

II. The single cell; the chain of cells; the film or plate of cells; solid forms.

If a plant with a single cell, be kept in position by some point of attachment, gravitation will act in such a way as to draw the growing



grow more to the under side and in a series of cells attached in the way we have the same effect - e.g.  $\begin{matrix} \text{O} & \text{O} & \text{O} & \text{O} & \text{O} & \text{O} \\ \text{O} & \text{O} & \text{O} & \text{O} & \text{O} & \text{O} \end{matrix}$ . In a film or plate of cells, as in a Lichen, where there is resistance, from the film resting on a hard surface, the effect is seen on the edge by the curling.

### III. The Effect of gravity upon growing plants - (Geotropism)

1. Without tension.

2. With tension; recovery of position; Knight's wheel experiment.

Pith grows faster than bark, hence there are more cells in the pith than the bark of wood. This may be proved by taking a piece of young growing wood, say 3 or 4 inches in length, cutting off the bark in strips and leaving the pith only. Immediately almost, the bark which has been unduly stretched, contracts, while the pith which has been contracted, elongates. When in a branch, the cells of the on one side, for reason elongated, the branch naturally twists. When the corn is beaten down by rain and the stalk is horizontal, the action of gravitation causes the under cells to grow more than the upper ones, and the stalk again rises. An explanation of Knight's experiment is in "Gray's Systematic & Structural Botany" 4th edition, Chap. XIII.

### IV. The relation of gravity to the assumption of form: - in the case of roots, stems, leaves, flowers & fruits (and the arrangement of these as well as their shapes.)

A terminal Toad Flax has been found with 5 spurs. The effect of gravitation working equally on all sides.



- V. The elements of strength in plants -  
Wood. Its parts & distribution.  
Bark.
- VI. Angles of petioles, and of branching: shapes of  
branched & simple plants.
- VII. The economy of strengthening material in clim-  
bers. Modes of climbing & phenomena of motion.
- VIII. Buttressed trunks of tropical trees. (Lianas or vines)
- IX. The relation of Gravity to the "sleep" of leaves & of  
flowers -
- X. The combined influence of the other forces already  
studied.

Books of Reference.

Sachs. Text-Botany.

Darwin. The Movements of Plants.

" Climbing Plants.

{ Carbonic Acid =  $\text{CO}_2$   
Water =  $\text{H}_2\text{O}$  } = Plant Food.  $\text{C}_{12}\text{H}_{20}\text{O}_{10}$  = Starch.

{ Plant takes in  $\text{C}_{12}\text{O}_{24}$   
and  $\text{H}_{20}\text{O}_{10}$  } =  $\text{C}_{12}\text{H}_{20}\text{O}_{10} + \text{O}_{24}$

Plant throws off  $\text{O}_{24}$ , which is called Respiration.

Plant in burning takes up  $\text{O}_{24}$  and produces  
Carbonic Acid & Water.



Lectures by Prof. Goodale Sept. 19 - 1887.

Subject.

Scitamineae. (Suborder).

I. Marantaceae. Food Plants are  
Maranta &  
Canna.

II. Zingiberaceae  
 Drugs

Elettaria (Cardamomum).  
Zingiber  
 Coloring Matter  
Cucuma

III. Musaceae Food Plants are  
Musa.

Bromeliaceae.

Food Plant,

Ananassa. (Pine Apple).

Decorative Plants,

Bromelia

Bilbergia

Fibre Plants,

Bromelia &c,

Tillandsia.

Order of Palms.

Pandanaeae

Pandanus. (Tree Pine).

Cycanthaceae

Carludovia Palmata.

Phytelphas macrocarpa.



Araceae.

*Symplocarpus foetidus*. (Stunk Cabbage).  
*Arisaema*. (Indian Turnip)  
*Acorus Calamus*. (Sweet Flag).  
*Colocasia esculenta*.  
*Calla* & *Richardia*

Lemnaceae.

*Lemna*. (Wick-Weed).

Inacantaceae

These 4 Orders, in the structure of the flowers, very much resembles the *Amaydis* Family. They have 6 stamens, though they are never all of them good. The leaf is different on the upper and under side. The petioles clasp each other, and through the middle comes the scape. The Root stocks are tender and juicy and loaded with starch. The starch obtained from this and allied species is the typical Arrow Root.

*Canna*, (Indian Shoe). The seed is so tough that it must be soaked in boiling water a morning or two in our climate, before planting.

*Clouselmois* is *Canna* starch, obtained from the root, used by French pharmacutists.

*Zingiber* (Ginger) is the rootstock in which starch is plentiful. Generally the epidermis is stripped off for market.

*Curcuma*, Coloring matter. From the Root is obtained Turmeric. *Curcuma* has an aromatic flavor. Indian Currie is *Caplicum* with *Curcuma*.



Elettaria. Rootstock not very aromatic.  
The fruit & seed contain the aromatic  
matter called

An active principle found in a plant  
is not always extended to its allies. The  
reason seems to be that under certain  
conditions a plant needs certain pro-  
tective organs; i.e. If a plant is attacked  
by insects, clothing it with hairs is one  
protective, or a poison in the plant  
is another protective. Plants near the  
sea are bitter, but when removed from  
the shore, they become hairy, as a pro-  
tective, dropping the bitter quality.

Musa. (Banana). The leaves have no net-  
work and a very thin Epidermis, and are  
very easily torn. <sup>of the trees</sup> They can bear no expo-  
sure. The stem is very short, what looks  
like stem being the clasping leaves.  
They are propagated by buds which causes  
the fruit to lose its power of developing  
many seeds. From 150 to 250 Bananas (yellow)  
are produced on a stalk, while only 100  
red Bananas are produced. The yellow &  
red Bananas are varieties of the same fruit.

Bromeliaceae. This order is easily distin-  
guished by its characteristic leaves.

Tillandsia (Southern Moss). This plant



7

was at first thought to be a Parasite, but as it grows equally well, it hanging on a nail, its character as an Epiphyte may be considered as established. By removing the epidermis from the leaves, the fibre takes the place of horse-hair in stuffing chairs.

Ananassa Sativa (Pine Apple). This fruit grows on the end of a stalk which rises between the leaves. A perfect flower grows in the axil of each bract, except at the top, where a tuft of long bracts without flowers grow. In ripening the parts of the flower are persistent, while the ovary & receptacle swell & become a multiple fruit. The plant is propagated by suckers which grow at the base of the large fruit or by slicing off the top of the fruit and planting that. Few fertile seeds are produced. The best Pine Apples are those produced under glass, in Pine Houses, in England and Europe.

Bromelia. From the fibres of this plant are made India & Ceylon handkerchiefs.

Pandanus (Pew Pine), is a decorative tree.

Carludovica Palmata (Panama Hat Plant) produces the Panama Hat.



Phytelephas (Ivory Palm). The seed is white and as hard as ivory. The white substance is albumen.

Craceae.

Symplocarpus (Shunk Cabbage). The flowers grow on a fleshy spathe, which is enveloped by a spathe. Insects visit the plant. The leaves, like the flower, and, though the plant is an endogen, the leaves are netted-veined!! The leaves are convolute and in starting are rolled one around the other. In general, leaves of all plants in starting are much like the adult leaf.

Richardia (the so-called Balla). In this endogen, the leaves are somewhat netted veined. In all roots of the order Craceae there is an acrid matter —

Crucifera (Indian Turnip). The corn is very acrid. The taste is not noticed at first, but in a few seconds, the tongue is filled with sharp needles. From certain species, if taken in sufficient quantity, the pain is very great and the power of speech is taken away, so that the plant used to be called Dumb Tongue or Dumb Pain. The Snow Root of the Polynesian Isles is obtained by drying out the sharpness and



and washing the plant with water.

Acorus Calamus (Sweet Flag). The thick  
creeping rootstock is the Rhizis (Calami) of  
the Shops. The plant is often confounded  
with the poisonous Blue Flag.

Colocasia esculenta. produces the best starch.

Lemna (duck weed). The simplest of  
flowering plants, floating free on the water.  
For full description, see Gray's Manual.

The 4 morphological parts to which any  
plant can be reduced are -  
Root - Stem - Leaf - Plant Hair.

Roots are Fibrous or Tuberous. Functions are  
Climbing, Epiphytic, Parasitic. Positions  
are Primary or Secondary.

Leaves - Bud Scales } Protective.  
      Aerial Envelopes }

Fleshy, for store houses of food.

Thorny, for defensive & offensive purposes.

Long threads, for Climbing.

Waxes and resins.

Modified Plant Hairs. Secretory (glands).  
Root hairs - Pickles (Rose).



Modified Stems and Branches.

Foliar and green tissue. Branched  
Stems. Tendrils. Climbing.  
Climber. Creeper. Runner. &c.

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## Palms.

Apr. 21-1881

1. Relations of Palms to other plants.
  2. Characters of the order.
  3. Root. Stem. Leaves. Inflorescence.
  4. Flowers. Fruits. Seeds.
  5. Fibres. Oil. Sugar. Starches. Wax.
  6. Fermented & distilled liquors.
  7. Distribution & Cultivation.
- 

1. In general, the trunk of the Palm is columnar with a crown of leaves or fronds at the top. When seen at a distance against the horizon, they very much resemble the "Tree Ferns" and some of our tall Pines. They are the highest of the endogens and may be characterized as Woody Urbal.
2. The flowers are much like Lilies in structure, on the plan of 3, with superior ovary. They are small and clustered on a much branched spike or on a simple one. Outside of the smaller bracts is a Spathe. The bracts, then, are



Spadiceous monocotyledons on the plan of 3.

3. The roots are very small, but very numerous. Each root is about as long as a piece of cordage of the same size. They forage over a great extent of ground, and, though slender, give enormous strength to the trunk. In the fierce storms which sweep over the region of palms, the fronds are often torn and injured, but the tree is rarely uprooted.

The stems are seldom branched, though an exception occurs in the Horn or Round Palm. The trunk is generally of the same size throughout, the being but slightly. Though an exception occurs in the Barrel Palm of the West Indies. This palm in one part of its trunk swells, and it is found that the interior is much softer than elsewhere in the trunk. By digging out this portion, the natives manufacture for themselves barrels without, of course, any head or bottom. The fibres run in curves. They consist of Bast and Wood. The Bast is on the outside, and the Wood fibres run through the trunk, surrounded by the cellular tissue. Some stems are very flexible, as the Rattan palm. The part used for rattan is the stem. The plant grows by its terminal bud, clinging to various supports, to the neglect of the tallest trees, and



then it runs along the tops of the trees and has been known to attain the length of from 1500 to 2000 ft. The hooks on the under surface of the leaves enable it to cling. On the West coast of Africa, near Cape Negro, it reaches from 900 to 1200 ft. in length.

The leaves are of two kinds: either distinctly Pinnate or distinctly Palmate. Between these two, there are a great many curious gradations. The most graceful of all palms is the Royal Palm which is cultivated for decorative purposes.

4. The flowers, as a rule, are very regular in shape and are generally perfect. The pistil is tricarpellary.

The fruit is of two kinds illustrated by the coconut and the date. These two fruits correspond somewhat to the almond and the peach. In the coconut, the outside of the ovary after stripping off the husk is hard, while in the date, we have a drupe or stone-fruit, with a soft pericarp and a stone in the centre.

The seeds have a peculiar germination. First, a radicle projects from the



Stone or Shell and seeks the ground, sending down its root, and then the palm pushes its way out and the palm is started. The three dark spots on the coconut are the outlets to the three cells, but one of these cells generally presses out the other two and so only one embryo developed. The embryo is very small, the rest being albumen which is divided into white meat and milk. The seed of the date is in a very small hole in the stone which can readily be found on examination.

5. The fibres of the palms are very numerous and are used for a great variety of purposes. Coir cordage comes from the fibre of the Cocoa Nut, brooms from the Broom Palm, and from others are made brushes, buckets, hammocks, cloth of good quality, while from the leaf is made the Indian tent.

Oil is very abundant in the Cocoa Nut. It is very white, and in odor resembles that of the nut. It is not to be confounded with Cacao Oil.

From the Oil Palm is extracted an oil which has the odor of violets. From it are manufactured the fine toilet soaps of France and England.

Sugar is made from the Sugar Palm, but



not in very large quantities.

Some Palms yield Starch in large quantities. Most of it is found in the Stem of the Plant. Sago is extracted from the Sago Palm by digging out the centre of the trunk and then separating the starch from the tissue. In the Moluccas the dried mass is made into cakes. In 8 days the natives can get enough sago to last them for a whole year. The sago undergoes another process before it is ready for our market.

Wax exudes in considerable quantities generally from the surface of young leaves. It can be scraped off with a knife, and several pounds can be obtained from one tree. This way, however, is far inferior to Paraffine, and hence has fallen largely into disuse.

C. The Arrack of the East Indies is an alcoholic liquor, the raw material for which comes from many species of the palm. The flower is cut out of the partially developed spathe of the palm, the end of the spathe is then cut off and the juice flowing from the wound is collected. When the flow ceases, another incision is made and so on until the spathe is used up. The liquor after standing a few days passes



into a state of fermentation, becomes alcoholic and acid, and finally becomes the Palm Wine or Toddy. This on distillation yields Arrack.

The Areca Nut, from the Areca Palm is a hard astringent and, when ground is very much like Cinnamon. The small pieces are wrapped in the leaf of the Betel Pepper and are used for chewing. The narcotic properties being in the leaf. It reddens the saliva. Next to tobacco, it is most extensively used -

7. In the tropics, the distribution of Palms is chiefly according to the abundance of moisture. North Carolina is the northern limit. They range through the northern part of So. America, being very abundant along the Amazon Valley, are found through the West Indies, on the Western & Eastern coasts of Africa, on the Northern & Southern shores of the Mediterranean, Eastern coast of Australia and are abundant through Farther India and the Islands to the South East.

Palms are cultivated, for ornament, largely in the South of Europe. No large Palm Houses exist in the U. S. To show the trees to advantage, a Palm House should be from 50 to 70 ft high -

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1884 -

Cambridge Mass. Apr. 27<sup>th</sup>.

I took a walk through Belmont and Waverly this P.M. with Rollie Larabee. But very little vegetation has yet showed itself. I gathered a few plants -

*Veratrum viride*

Young leaves with root.

*Symplocarpus foetidus*

Seedlings

Belmont.

*Arisaema triphylla*

Corms.

*Sanguinaria Canadensis**Saxifraga Virginensis*

Wattham.

Cambridge Mass. May 4<sup>th</sup>

I took the same walk through Belmont & Waverly with R. Larabee on Sat. Sunday. Vegetation still very little advanced.

*Veratrum viride* (Young leaves & root)*Symplocarpus Virginiana* (Young plant)*Thalictrum Americanum**Gaytherium**Arisaema triphylla* (Not fully developed)*Helianthus*

Belmont.



1884.

— Cambridge, May, 18<sup>th</sup>. Mass.

I went to Waverly and Waltham this P.M. with Rollin. The day has been very beautiful and vegetation is fairly starting. I gathered a few plants —

*Antennaria plantaginifolia*

♂ & ♀

Waltham, Watertown & Belmont.

*Saxifraga Virginensis*

Hillside - Waltham.

*Veronica peregrina*

Waltham Belmont.

*Betula alba*, var. *populifolia* }

*Berberis vulgaris*

Hillside - Belmont.

*Veronica arvensis*.

Open, rocky ground - Waltham.

*Ribes hirtellum*, Michx. (*oxyacanthoides*, L.)

Growing out from a stone wall enclosing a large field on Orchard St. Watertown.



1884

— Cambridge, Mass. May 25<sup>th</sup>. —

A most beautiful day clear and cool.  
Rollin & I took our usual afternoon trip  
to Belmont. The plants are now well  
along. We went as far as the Waverly  
Hills.

*Uvularia sessilifolia*  
*Erythronium americanum* (Fruit)  
*Veronica perfoliata*  
*Luzula campestris*

Woods off North St. Belmont.

*Actaea spicata*, var. *rubra*.

Near Clematis Brook

*Polygonatum bistorta*

Gravelly bank by the R.R. track,

*Silene pennsylvanica*

Gravelly bank by the R.R. track Waltham  
about 5 min walk from the Waverly Station  
going west.

*Anthoxanthum odoratum*,

Open field, Belmont.



1884-

Cambridge, Mass. May 31. —

This P.M. I went down to the marshes by Charles River near the new Hospital grounds. I found a few new plants which I gathered.

*Potentilla Anserina*, L.

Growing in great abundance in the marsh by a creek.

*Triglochin maritimum*, L.

Abundant in the marsh. Carpels 6!!  
*Alopecurus pratensis*, L. (Fide L. H. Bailey jr.)  
 Meadow.

*Alopecurus geniculatus*, L. (Fide L. H. Bailey jr.)

moist ground on the edge of a marsh.  
 I only saw it in one locality. It was growing freely there.



1884.

21

Cambridge Mass. June 1 -

A clear, cool day. This P.M. I went as usual to Waverly & Waltham taking the cars as far as Common St. Watertown and walking the rest of the way. Rollin Larrabee, Helen & May Dexter went with me. We went as far as the waterfall on (Crematic) Brook. I gathered a number of plants for press.

*Geum rivale*, L.

Wet ground. Abundant

*Saxifraga Virginensis*, Michx  
Fruit

*Veronica arvensis*, L.

Fruit.

*Silene Pennsylvanica*, Michx

Growing rather abundantly in  
gravelly soil by the R.R. track.

*Anthoxanthum odoratum*, L.)

*Myosotis verna*, Nutt.

*Veronica peregrina* L.

*Scleranthus annuus*, L.

Waltham.

Belmont.

All abundant.



1884 -

- Cambridge, Mass. June 2 - -

This P. M. I went up to my Father's to look after a few plants that are growing wild on the place, of Horse-Radish is growing near the barn and I am interested to see if it fruit. It is in flower now, but it rarely fruits.

*Aesculus Hippocastanum*, L.

From the tree north of Father's house.

*Lamium amplexicaule*, L.

In the yard near Father's barn. Akenes.



1884.

- Cambridge, Mass. June 7 - -

This P.M. I took the train from the Albany Station in Boston, with Mr. Kurlin and went to Newton Upper Falls.

From there we went across Charles River to the Newton Filtering Basin where we botanized. This Basin is close by Charles River in Needham and supplies Newton with water. On our return home we walked to West Newton, 3 miles distant through a very beautiful country, and reached the R.R. Station just in time to escape a rain storm. I took the car to Newton and the Horse Cars home from there.

*Viola cucullata*, (ut. *var. palmata*, Gray.)  
*sagittata* Mill.

These two species were growing in great abundance on the slope of the Newton Filtering Basin in Needham. The *V. sagittata* was very large and in excellent fruit.

*Viola lanceolata*, L.

Same locality as the above. In fruit.

*Potentilla palustris*, Scop.

Bank of Charles River, Needham. It was

too young to be in flower.

*Rubus Canadensis*, L.

Dry roadside. Newton Upper Falls.

*Lupinus termis*, L. Flowers & fruit. Sandy field, Needham. It grows in great abundance in this locality, covering the ground.



1884 -

- Cambridge, Mass. June 8 -

I did not take my usual Sunday P.M. walk to-day. In the P.M. I went up to Father's and got some grasses growing in the place -

*Dactylis glomerata*, L. }  
*Poa pratensis*, L. var. } (Tide L. H. Bailey, jr.)  
*Festuca ovina*, L. *duriuscula* G. }  
*Anthoxanthum odoratum*, L.

These grasses were all gathered on Father's ground. The *Dactylis* is just now in good flower.

- 1884 -

- Cambridge, Mass. June 13 -

This P.M. I went up to Father's and took notice of the various grasses growing on the place. I saw *Poa pratensis* - *Triticum repens* - *Anthoxanthum odoratum* - *Dactylis glomerata* - *Phleum pratense* - *Festuca ovina* - *Bromus racemosus* -

I put in to press  
*Rasturtium Armoracia*, Fr.

James & I dug down 3' in stony soil and then broke off the root. It was an escaped plant growing among the grass.



1884

— Cambridge, Mass. June 14 —

This A.M. on the way home from Boston  
I found growing on the gravel sidewalk  
near by the Post Longfellow's fence  
*Spergularia rubra*, West. var. *campestris*.  
I took several specimens for press.

1884

— Cambridge, Mass. June 15 —

This P.M. I took a walk to Fresh Pond  
with Helen & May Dexter. The children gath-  
ered flowers while I collected some grasses.

*Bromus racematus*, L. (Fide L. H. Bailey, jr.)

Amongst grass at Fresh Pond.

*Glyceria fluitans*, R. Br.

" *nervata*, Trin.

*Poa pratensis*, L.

" *alsodes*, Gray.

*Carex stipata* Muhl

Wet ground near Fresh Pond

*Festuca ovina* L. var. *duriuscula*, Gr.

Grassy slope near Fresh Pond

*Buphthalmum rotundifolium*, L.  
Gravel sidewalk by Mr. W.  
Brewster's house, Brewster St.  
Cambr.

1884 -

— Cambridge Mass. June 16 —

*Phalaris Canariensis*, L.

Harvard Square, behind the Post Office growing  
in sandy soil by the brick wall.



- 1884 -

Cambridge, Mass. June 20<sup>th</sup>.

This evening I gathered some  
*Geranium* *leptophyllum* L.  
at Father's. It has been grow-  
ing in a thick clump for this summer  
near the house in the grass.

- Cambridge, Mass. June 21 -

A piercing hot day -  
*Chenopodium glaucum* L.

I found an abundance of this  
plant growing around some of the  
trees on Charles St., Boston, by the  
Public Gardens -



- 1884 -

27

- Cambridge Mass. June 22 -

This P.M. I went to Belmont & Waltham with Green & May Hexter. We went the usual way through Orchard & White Sts. It has been a beautiful day and we thoroughly enjoyed our walk of about 6 miles.

*Galium Aparine*, L.

I found this *Galium* on Common St. Watertown, growing on a grassy slope near the sidewalk.  
*Ribes Luteolum*, Michx. (*Oxycanthoides*, L.)

Fruit. Same bush as the specimens gathered last May 18<sup>th</sup>. Orchard St., Watertown.

*Silene Pennsylvanica*, Michx.

*Panicum pauciflorum*, Ell.

" *dichotomum*, L. (Fide L. A. Bailey)

" *depauperatum*, Muhl.)

Gravelly soil by the Railroad track, Waltham.

*Geranium maculatum*, L. (Fruit)

*Allium Canadense*, Kalm,

*Scum rivale*, L. (Fruit)

Waltham -



~ 1884 ~

~ Cambridge. Mass. June 26 ~

This P.M. I went down to the marshes  
by Obs. River near the foot of Lowell St.  
where I got several plants. The tide  
was very high and the weather cool.

*Potentilla Anserina*, L.  
*Triglochin maritima*, L. }

Abundant in the salt marsh.

*Juncus Gerardi*, Loisel.

This Rush forms the principal growth  
on the marsh.

*Ranunculus Cymbalaria*, Pursh

I only saw a few plants by a creek  
which is quite filled at high tide.

*Glyceria maritima*, Wobbe.

Abundant by the river.

*Scirpus maritimus*, L.

Salt marsh -



~ 1884 ~

~ Cambridge, Mass. June 27 ~

This noon L. H. Bailey, jr. & I went to the Fitchburg R. R. Track west of Porter's Station and followed the track to near the Belmont line.

We found a number of interesting plants -

*Spartanium eurycarpum*, Engelm.

*Carex lasiocarpoides*, Schk.

" *vulpinoides*, Michx.

} vide L. H. Bailey, jr.

Wet ground -

*Carex straminea*, Schk. var. *alata* L. H. Bailey, jr. (vide L. H. B., jr.)

(We found several specimens of this in water.

Mr. Bailey never found it before. It is the

*Carex alata*, Torr. See Cat. N. & A. (written by L. H. Bailey, jr.)

*Poa compressa* L. (vide L. H. Bailey, jr.)

Sterile soil by the R. R. Track.

*Poa serotina*, Ehrh. (vide L. H. Bailey, jr.)

Loose ground.

~ Cambridge, Mass. June 28 ~

This P. M. while waiting at Harvard Square I gathered

*Phalaris Canariensis* L.

Same place as that of June 16<sup>th</sup> last.

*Bromus sterilis*, L. *tectorum*, L.

Growing very abundantly on Holyoke St.

in a vacant lot between Harvard Sq. & New-Cornhill St.

*Lychnis viscaria* Sibth. Laid by a wall. Camb. Mass.



~ 1884 ~

~ Cambridge, Mass. June 30 ~

This A.M. I went to Belmont by the usual route to Common St. Watertown. I was alone and the weather was intensely hot. I visited the wood where the Dog-tooth violets grow so thickly and, strange to say, I could not find the trace of a single leaf. The whole plant had disappeared. I then walked up as far as the waterfall in Waverly and home through White & Orchard Sts.

*Geum Virginianum* L. Receptacle glabrous.

*Maxillaria* *Bennetii* *Wanda* L. Seeds gone showing dehiscence.

Fruiting Specimens - Woods -

Belmont -

*Barbarea vulgaris* R.Br. var. *stricta*, Gray.

Fruiting Spec. Belmont.

*Trisetum officinale*, R.Br.

(Hemlock Brook - Waverly, Mass. -

Belmont - Very abundant.

*Urtica dioica*, L.

Fence row - Watertown Road. Watertown.



~ 1884 ~

~ Cambridge, Mass. July 2 ~ 12 M.

This A.M. I went to the Botanic Garden. Dr. Gray gave me a letter from and I gave him a fruiting spec. of *Lappula Remyi*, *Evania* as he wanted to examine a fresh spec. with regard to the rootstock.

*Silene Armenia*, L.

*Geranium urbanum*, L.

*Leucanthemum Reithenium*, Soder.

All These are growing wild at the Botanic Garden.

~ Ashland, Mass. July 3 ~

I arrived here with my wife last evening at half past six o'clock. We are spending a couple of days with Miss E. F. Wiggins.

This morning a party of five including the Rev. Thos. Morong took a botanical tramp along the road in the fields and by the R. R. track. I found a good many things that I had not seen before, some of them in great abundance. We made a very interesting collection. In the P.M. we took a drive through Ashland into Framingham where I also got a number of new plants.

I met Rev. T. Morong  
to-day for the first time.



Those marked A are from Ashland  
 7 - - - - - Framingham }

- A *Melilotus officinalis*, (Willd.)  
 A *Helianthemum canadense*, Michx.  
 A *Pericarpus corymbosus*, Nees. Found considerable.  
 A *Festuca tenella*, Willd. (Fide Thos. Morong).  
 Roadside } Abundant in one place.  
 A *Asclepias tuberosa*, Michx. (Fide Thos. Morong) Only 1 spec. seen. No more seen.  
 A *Panicum clandestinum*, L. (Low ground) very abundant - in one spot.  
 A *Carex scoparia*, Schk. (Fide L. H. Bailey jr.)  
 A *Triticum vulgare*, (awnless paleis) Tillus  
 A *Silene antirrhina*, L. Only 1 spec. seen.  
 A *Cystopteris fragilis*, Bernh. " "  
 A *Epiphenium vibernum*, Cist. (R.R. track & roadside)  
 A *Bromus tectorum*, L. (Fide L. H. Bailey jr.)  
 Along or near the R. R. track.  
 F *Agrostis hyemalis*, L.  
 F *Panicum dichotomum*, L. (Fide L. H. Bailey jr.)  
 A " *latifolium*, L.  
 A *Carex acutiformis*, Schk. (typical form.) (Fide L. H. Bailey jr.)  
 A " *acutiformis*, Boott. }

### Woods.

- F *Galium circaezans*, Michx.  
 F *Speularia perfoliata*, A. DC. Abundant in 1 spot.  
 A *Aspidium Novboracense*, warty.  
 A *Carex pallens*, L. (Fide L. H. Bailey jr.)  
 Roadside  
 A *Sium strigosum*, Muhl. var. *discoideum*, Robbins. (Fide Thos. Morong)  
 Open field.  
 A *Lythrum salicaria*, L.  
 Abundant in marshy ground.  
*Danthonia spicata*, Beauv. (Fide Thos. Morong)  
 Open spot in the woods.



- # *Poa serotina* Ehrhart. (Fide L. H. Bailey, jr.) Shady woods.  
 A *Gaylussacia Honda*, Torr. & Gray. Saw several bushes.  
 A *Carex cephalophora*, Muhl. (Fide L. H. Bailey, jr.)  
 woods.

- A *Trifolium hybridum* (Fide Mrs. Manning)  
 This clover is common in Ashland. We found it growing along the roadside and in the fields.

- A *Panicum latifolium*, L.  
 Woods - Abundant.

- Lindera Benzoin*, Miers. *Vaccinium corymbosum* L.  
 Roadside. Fruit.

- Scirpus atrovirens*, Muhl. (Fide L. H. Bailey, jr.)  
 Wet ground. Roadside.

~ Cambridge, Mass. July 4 ~

This A.M. I went to Mr. Manning's house and saw his herbarium. He gave me a large number of interesting plants. <sup>(Fide note Aug 28, 1894)</sup> We took the 6-45 P.M. train from Pittsford and arrived home at 8.30 P.M. I carried my plants in my wire press very comfortably.

*Lychnis respertina*, Link. fl. white }  
 " *diurna*, Link. rose red } styles 5!!  
 Detected garden in Ashland.

~ Cambridge Mass. July 7 ~

*Chenopodium glaucum* L.

Fruit - Same locality as that of last June 21 -

Cambridge Mass. July 5.  
*Elevcharis obtusa*, Schult.

Mossy ground near the Belaire Garden -



~ 1884 ~

~ Cambridge, Mass. July 8 -

This A.M. I took the Steam car to Waverly, where I spent one hour. It has been a rainy day.

*Circaea Lutetiana*, L.

I found this plant in flower by Benedict's Brook. It is the first time I ever found it. There were 2 or 3 more specimens in bud. Locality, Belmont. I label all my plants which I get in Waverly, as from Belmont which comprises Waverly.

~ Nantucket, Mass July 10 -

Yesterday, J. R. Churchill, his brother, Maggie & I left Boston at 12.45 P.M. and reached New York on the old Colony by 3.30 where we took the steamer for Nantucket. We had a delightful sail, touching at Martha's Vineyard. We reached our destination at 7.15 P.M. and went straight to the Ocean House where we intend to spend a few days. This morning Mr. C. and I took a walk on the commons west of the lighthouse as far as Whim Pond where they have Quail works. We walked some



six miles in all. The whole character of the Island is different from anything that I ever saw elsewhere in the medium sea. The country in the western & eastern parts of the island is rolling and covered with low grass while the portion south of the town is very flat, broken by a belt of low Pitch Pines which are not more than 10 or 12 ft high and show the remains of the Pine North. The many brilliant flowers are out just at this season the *Chrysopsis folcata* was growing in great abundance just ready to burst into golden flowers a little later. I found a few specimens out. The *Polygala polygama* grows in great profusion everywhere and makes a brilliant color with its purple flowers. The hollows are filled with small ponds and bogs a rich field for the botanist. I saw the *Phragmites* growing magnificently by a pond. It is a reedy grass but was not yet in flower. The *Hydrocotyle umbellata* was abundant but unfortunately we were too early for it. We reached home in time for dinner and I spent the afternoon in arranging our plants while I was glad of a rest. In the evening we strolled down to the wharves where I got *Epilobium hispidum*.



*Hudsonia tomentosa*, L.

*tomentosa*, Nutt.

*Helianthemum Canadense*, Michx.

*Holcus lanatus*, L.

*Polygala polygama*, Walt.

Sandy common - Very abundant

*Chrysopsis falcata*, Ell.

*Carex foena*, Willd. var. *flutuosum*, Boott. (See L. H. B. in fig.).

*Aira caryophyllacea*, L.

*Festuca Myurus*, L.

Sandy, common (Very abundant).

*Aletris laniosa*, L.

Form 3 fine specimens - Sandy common.

*Typha angustifolia*, L.

*Cirsium horridulum* Michx. (See L. H. B. in fig.)

Marshy ground

*Rumex verticillatus*, L.

In water in a boggy ground.

*Danica pauciflorum*, Ell.

Sandy common, Saw but little.

*Glyceria pallida*, Trin.

Near shore of a pond

*Arenaria serpyllifolia*, L.

Sidewalk in the town.

*Trifolium procumbens*, L.

Grassy field in the town. Abundant.

*Coronilla varia*, L.

field - escaped - Saw it in gardens.

*Calamagrostis Canadensis*, Beauv.

Near boggy ground.



*Arraria peploides*, L.

Abundant in sand on the shore. Not in flower.

*Epilobium lutescens*, L.

Wharves, It is scarcely in flower yet. It grows abundantly by the wharves.

~ Nantucket, Mass. July 12 ~

We have had a <sup>successful</sup> very day, but somewhat and otherwise. This A.M. we all took the little Steamer, Island Belle and went up to the extreme head of the bay, to a place called Wauwinet in the North Eastern part of the Island. Maryie and Mr. M. Churchill went back on the boat while Mr. J. R. C. & I started on foot and walked to Siasconset.

We made the distance about 10 miles. We kept within a mile of the shore and walked at times on the road, and at times on the rolling meadows, part time I went over a bog. Gibbs Pond was the largest piece of water. Sachacha that we saw. It has brackish water as there is but a narrow sand bar separating it from the sea. The shore was lined with dead turtles lying mostly on their backs. I counted 36 in sight from one spot. At Siasconset we took the train for Nantucket and got home to supper. We spent the evening in our plan 10.



*Aira flexuosa*, L.  
*Stipa avenacea*, L.  
*Danthonia spicata*, Beauv.  
*Quosmodium virginianum*, Wb.  
*Isoplepis obtusifolia*, Michx.  
*Audouinia ericoides*, L.

Sandy commons. East end of the Island.

*Limosella aquatica*, L. var. *tenuifolia*, Hoffm.  
*Cyrtus scabra*, Willd.

" *alba*, L. (Fide L. A. Bailey, Jr.)

Border of Sachacha Pond.

*Typha angustifolia*, L.

Cane Pond - Very abundant.

*Rumex salicifolius*, Weinmann.

Sandy place, wet, by a bog.

*Carex comosa*, Boott.

" *lupulina*, Muhl.

(Fide L. A. Bailey, Jr.)

Bog.

*Glyceria plicata*, Trin.

In water.

*Spartina cynosuroides*, Willd.

Wet ground.

*Xibnum moll*, Michx. (Fide L. A. Bailey, Jr.)

Moist ground, abundant, Wauwinet.

*Hieracium lanatum* Michx.

Border of Swamp. 6 ft. high.



~ Nantucket Mass July 13 ~

It rained this A.M., and we were very glad to stay at home and arrange and analyze our plants. We took a short stroll before dinner on to the common west of the town. In the P.M. we drove across the Island directly South about 3 miles to Long Side where we found a magnificent specimen of *Mercensia maritima*, Don.

Sand Shore, Long Side. The plant was 3 feet in diameter, the branches all radiating from the center. The root was an inch in diameter, and consisted of a bundle of fibres, interlaced like a rope constantly branching and connecting with each other.

*Spartina stricta* Roth. var. *altissima* Gray.  
Salt marsh - Long Point.

*Festuca Myuros*, L. }  
*Circa caryophyllodes* L. }

Sandy common west of the town.

Cambridge Mass July



— 1884 —

— Nantucket Mass July 14 —

This A.M. Mr. C. & I took the Island Belle and landed at Coatee a flat, sandy spot on the bay. Coatee is a long sand bar forming one side of the bay and is covered with low grass and interspersed with occasional stunted New Englanders no more than 3 or 4 ft. high. The *Juniperus Virginiana* at some distance off looks very much like the *Juniperus communis*. There we found the *Opuntia vulgaris*, Mill. &

In sand, growing in great abundance. It was a very interesting sight to see this cactus with its large yellow flowers, growing here & there in the sand. We gathered specimens and reached home in time for dinner. In the P.M. some relations of Mr. Olmsted took Margie to drive to Falmouth a distance of nearly 5 miles east. Mr. C. & I went with them to the 5th mile post where we left the carriage and returned through the commons by Gibbs Pond. We gathered several plants and reached home by 7-30 P.M.



Woodwardia Virginica, Smith.

Bog, by Gibbs Pond. This fern was

discovered in 1841 by William H. Miller, who has been it.

*Asplenium Canadense*,  
*platyneuron*, Michx.

*Adiantum crinale*, L.

" *tormentosum*, L.

*Arenaria serpyllifolia*, L.

" *peploides*, L.

*Trifolium polygama*, Wier.

*Trifolium procumbens*, L.

*Lotus procumbens*, L. *varia*, L.

*Epilobium ciliatum*, L.

*Sparganium angustifolium*, Mill.

*Asarum canadense*, Michx.

*Viburnum acerifolium*, Michx.

*Lythrum hyssopifolium*, L.

*Lythrum hyssopifolium*, Michx.

*Linum catharticum*, L. *var. tenuifolium*, Hoffm.

*Onosmodium Virginianum*, Gle.

*Mertensia maritima*, Don.

*Asclepias tuberosa*, Michx.

*Polygonum hydropiperoides*, Michx.

*Rumex crispus*, L.

" *verticillatus*, L.

*Cyperus angustifolius*, L.

*Urtica dioica*, L.

*Eriophorum gracile*, Koch. *var.*

*paucinerium*, Engelm.

between Broadway  
distance. The Semis-

It grows in an open field and covers nearly  
1/4 acre. It has been there a long time.



1884

## Hantue

This a.m. I  
 Island Belle is  
 a place, I said.  
 (Cactus is a flower  
 one side of the  
 water but with  
 with occasional  
 no more than  
 Juniperus Virginica  
 10. looks very  
 communis.

Opuntia vulgaris

In sand,  
 dance. It was  
 light to see 12  
 large yellow flowers  
 there in the  
 specimens and  
 for dinner. On

Return of Mr.  
 to drive to find  
 nearly 5 miles  
 with steep hills  
 we left the car  
 through the c.

We gathered several plants and reached  
 home by 7-30 P.M.

Carex comosa, Brit.

" foenea Willd. var. latifolia

" lupulina, Muhl.

Agrostis scabra, Willd.

" alba, L.

Calamagrostis Canadensis, Beauv.

Stipa menziesii, L.

Spartina cynosuroides, Willd.

" stricta, Roth, var. alternifolia, Gray

Glyceria pallida, Trin.

" acutifolia, Torr.

Festuca Myuros, L.

Danthonia spicata, Beauv.

Tria flexuosa, L.

" caryophylla, L.

Holcus lanatus, L.

Panicum pauciflorum, Ell

Hordeum virginicum, Brit.



*Woodwardia virginica*, Smith.

Bog, by Gibbs Pond. This fern was growing in the greatest profusion excluding all other plants. There must have been at least an acre of it.

*Polygonum hydropiperoides*, Michx.

*Glyceria acutiflora*, Torr.

*Eriophorum gracile*, Michx. var. *pauciflorum*, Engelm.

Boggy plain - East Nantucket.

~ Cambridge, Mass., July 15 ~

We left Nantucket this noon at half past twelve o'clock and reached home by 8-15 P.M.

~ Cambridge Mass. July 17 ~

This A.M. I verified my grasses from Nantucket at the Gray Herbarium. I collected to-day a few plants.

*Polygonum persicaria*, L.

Sidewalk - Brewster Pl.

*Senecio tinctoria*, L. }

*Rumex crispus*, L. }

Below Memorial Hall between Broadway & Cambridge St. a short distance. The *Senecio tinctoria* grows in an open field and covers nearly  $\frac{1}{4}$  acre. It has grown there a long time.



1884

~ Cambridge Mass July 18 ~

This A.M. I took the car to Belmont where I botanized a little and on my return I went to the Salt marshes by Charles River and gathered a few plants - Afternoon rainy -  
*Festuca elatior*, L. ~~var. pratensis~~, Gray.

By the sidewalk Cambridge Sparks St.  
 This grass is common. I found it abundant in fields in Waverly.

*Lysimachia lanceolata*, Walt.

Low ground. Belmont, (Waverly) by Clematis Brook. There were some half a dozen stalks growing together.

*Boehmeria cylindrica*, Willd.

Wet shady ground. Clematis Brook, Belmont (Waverly). I found several plants.

*Circaea lutetiana*, L.

Fruiting spec. By Clematis Brook, Belmont (Waverly) - moist shady spot.

*Castilleja officinalis*, R. Br.

Fruiting spec. Clematis Brook. Belmont (Waverly).

*Glyceria maritima*, Wabl. }

*Spartina juncea*, Willd. }

Salt marsh. Cambridge near Richardson's coal wharf ~



— 1884 —

— Cambridge - Mass - July 20 —

This A.M. I went over to Dorchester and spent the day with Mr. J.R. Churchill. We talked over our Nantucket plants and looked over his collection during the morning and after dinner, we took a long drive through Dorchester and Milton. The country is looking beautiful. We found a few very nice plants -

*Galium verum*, L.

In full flower, by the railway track, Dorchester. It makes a brilliant show and is very strong-scented -

*Cornus sericea*, L.

Roadside - damp ground, Milton. It is very abundant in Dorchester & Milton.

*Asclepias purpurascens*, L.

Roadside, Milton. The hoods & horns answer the Manual description exactly.



— 1884 —

— Wrentham Mass. July 22 —

This morning I took the 9 o'clock train from the Eastern Depot and went to Nahant and spent the day with Willie Beal. I had a very nice time, did some botanizing and reached home by 7 P.M.

*Sonchus asper*, Vill.

Waste ground, Nahant.

*Sonchus oleraceus*, L.

Waste ground, moist, Nahant.

*Verbena officinalis*, R.Br.

Moist ground, open field, Nahant.

*Scirpus validus*, L.

Fresh water ditch, Nahant.

*Anchusa Smoloni* DC. (Fide S. Watson)

Rocky coast, Nahant. I found this plant growing in great abundance and it all had fruit at least twice as large as that of the ordinary type. (I showed it to Mr. S. Watson who found but one specimen from the north in the Herbarium like it and he has taken a specimen of mine for the Herbarium - July 23<sup>rd</sup> 1884.)

*Lathyrus maritimus*, Bigelow.

Pods & seeds. In great abundance on the rocky shore.



Thurs. July 24. 1884.

We left Leamcote 7.30.  
 Took 9 train from  
 Bicester for Ewellhamme,

We had such a grand  
reception when we  
arrived here - All the  
household except Mrs  
Hayward who was  
not well enough, dis-  
missed us at the Ford,  
with bouquets of flowers  
& a "Standard" 8 feet  
high of flowers for M.  
They also carried us  
with flowers - Mr. Gree-  
ough had written a  
Latin effusion of  
"Melcorne", & a speech  
of "Melcorne" was made  
by Father - When we came  
to the house the path was  
littered with flowers  
& a clean pattern was given  
to me, Ah, it was such  
fun - & then it was so  
kind in them to give



— 1884 —

— Cambridge Mass July 22 —

This morning I took the 9 o'clock train such a welcome!  
 the Eastern Depot and went to Nahant.  
 Spent the day with Willie Reed.  
 very nice time, did some botanizing  
 reached home by 7 P.M.

*Sonchus asper*, Vill.

Waste ground, Nahant.

*Sonchus oleraceus*, L.

Waste ground, moist; Nahant.

*Habenaria lacina*, R. Br.

Moist ground, open field, Nahant.

*Scirpus validus*, Vahl.

Fresh water ditch, Nahant.

*Archangelica Gmelini*, DC. (Fide S. W.

Rocky coast, Nahant. I found  
 plant growing in great abundance  
 it all had fruit at least twice  
 as that of the ordinary type. (I  
 to Mr. S. W. Dawson who found but one  
 specimen from the north in the  
 like it and he has taken a sp  
 of mine for the Herbarium - July 25. 1884)

*Lathyrus maritimus*, Bigelow.

Pods & seeds. In great abundance  
 on the rocky shore.



1881

From Margaret  
C. Dennis Jones

not  
by  
1

in  
7



1800.

1/2

5/10

1/10

1/10

son

June.

Aug.

Sci.

Cur.

1/10

1/10

1/10

1/10

1/10

1/10

Sci.



— 1884 —

— Cambridge, Mass. July 23 —

I have taken up my plants which are not yet dried to my father's to be looked after there as we leave for Shelburne to-morrow.

*Chenopodium hybridum*, L.  
Sidewalk, Brewster Pl.

— Shelburne N. H. July 25 —

Arrived here safely yesterday, where we met a warm reception. This A.M. I went over to the Knubble (a wooded knoll by the Androscoggin River) with Roland Hayward who collected insects and G. L. Briggs.

I collected a little and we had a bath in the river. This P.M. I collected a little by the road near the house.

*Glyceria aquatica*, Smith

" *fluitans*, R. Br.

" *elongata*, Trin. \*

Wet ground - border of a brook.

*Panicum xanthophyllum*, Gray.

Knubble - Rich wood. It grows very freely here, but the plants are scattered, in good condition to gather.

\* In good condition to gather. Thus-gathered Aug 3 - almost 150 - for gone - Aug 8 - 40.



Journal of J. D. Jones 26

This morning we were up at 3 o'clock to get ready for our Mt. Washington trip. Our party consisted of Wm Brewster, J. J. Greenough, A. P. Chadbourne, R. Hayward, G. L. Briggs, Bertie Briggs & Robie Greenough besides myself and A. E. Philbrook who drove the team. We breakfasted at 3.30 and were off at 4.15 o'clock. It was a most beautiful morning, clear as crystal, and the drive from the Philbrook Farm to the halfway house on Mt. Desh. was more beautiful than I can possibly describe.

At the halfway house which we reached at 9.15 we stopped, put up the horses ate some more breakfast and then leaving Mr. Philbrook with the team, we all started off on our various excursions. Wm Brewster & A. P. Chadbourne went into the woods a short distance below the halfway house for the Bicknell Thrush. R. Hayward, accompanied by the Briggs & I went to the summit the former for beetles while Jamie & Robie Greenough & myself started off for plants. We went up the road, collecting on the way, as far as the 5 mile post and then struck off on to the mountain side some half a mile where we gathered some nice Alpine plants.



*Arenaria Froehlandia* was abundant in flower and fruit whilst the *Juncus trifidus* was growing in tufts everywhere in the greatest profusion. The *Vaccinium uliginosum* was in ripe fruit, while in 1882 on July 20 I found it in flower, at about the same elevation. Where we rested for our lunch we lay down on beds of *Ledum latifolium* and in places we saw the ground covered with *Empetrum nigrum* with its fruit turning black. We returned to the half-way <sup>house</sup> by 4 P. M. and by 5 o'clock our party were gathered together. The ornithologists had been very unsuccessful having seen or heard scarcely a single bird. The entomologist had a bottle full of coleoptera, while I had 23 species of plants at least half of them Alpine. The day had been perfect, scarcely a breath of wind was blowing, even on the summit of the mountain and excursionists in great numbers were continually passing over the road. We reached home by 8.45 P. M. very tired, but having passed a most delightful day. The plants I collected, with the exception of one *Geranium*, were from above the half way house as high as the 5 mile post. In the half mile we walked on the M. side we did not go higher than the 5 mile post. We reached a point, but 10 minutes walk from the head of Huntington's Ravine.



From Mt. Washington, N.H.

*Carex canescens*, L. (Fide L. H. Bailey, jr.)

In wet ground a short distance below the halfway house.

The following were gathered at an elevation of from 4000 to 4600 ft. -

- Carex canescens* L. var. *vittilis*, Carey (Fide L. H. Bailey, jr.) Saw but one specimen.
- Carex vulgaris*, Fries. var. *hyperborea*, Britton (Fide L. H. Bailey, jr.)
- Calamagrostis Canadensis*, Beauv.
- Agrostis canina*, L. var. *alpina*, Oakes
- Cliza flexuosa*, L. (Fide L. H. Bailey, jr.) \*
- Empetrum nigrum*, L.
- Taccinium uliginosum*, L.
- Luzula spicata*, Descaux. (Fide L. H. Bailey, jr.)
- Arenaria Groenlandica*, Spreng.
- Anemone trifidus*, L.
- Scirpus caespitosus*, L.
- Calluna pallida*, Kunth.
- Geum radiatum*, Mx. var. *Reekii*, Gr.

All these were conspicuously abundant.

*Habenaria dilatata*, Gray. Flowers white!

Wet ground near 5 m. post. Saw but 2 plants.

*Taccinium Pennsylvanicum*, Lam. var. *angustifolium*, Gray.

Growing with *Ledum latifolium* at an elevation of about 4600 ft. Did not see much of it.

*Campanula rotundifolia*, L.

Abundant in one spot. 4600 ft. altitude.

The root-leaves were fresh.

*Rhododendron Laponicum*, Wahl.

4600 ft. altitude. I saw several isolated plants and one small patch of this Rose-bay, about 2 ft. across.



\* Although this *Aira* does not agree with the Manual description in its parts. Mr. Bailey finds specimen 15 correspond on the Gray Herbarium.

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*Lycopodium cinnatum*, L. var. *purpureum*. (Edw. W. Farrow)  
4600 ft. altitude. Abundant in one spot.  
*Luzula parviflora*, Desr. var. *melanocarpa*. Gray.  
4600 ft. altitude. Saw 3 plants.  
*Nabalus nanus*, DC.

4600 ft. altitude. Saw 2 plants just flowering.  
*Nabalus Boothii*, DC. Saw 3 flowering plants.

Shelburne, N.H. July 27. 1884.

Stayed at home, working over my plants. No collecting.

— Shelburne N.H. July 28 —

This A.M. I went to the Knubble and strolled along the river bank with Mr. Brewster who carried his gun. This P.M. I went down to Wheeler's peat bog.

*Aira caespitosa*, L.

River bank - tufted - abundant.

*Equisetum limosum*, L. (Edw. W. Farrow)

Muddy shore of a creek behind the Knubble - abundant at that place -

*Scheuchzeria palustris*, L.

Wheeler's peat bog. I found the plant abundant, but could only find 2 plants with a flower-stalk. The plants were in fruit.



— 1884 —

~ Shelburne, N. H. July 29 ~

A cloudy day, rainy evening.

This A.M. I went to Infall's woods with Mr Brewster & C. P. Chadbourne where we spent the morning. On the way back I went into Wheeler's bog and found the *Scheuchzeria palustris*, L. very abundant, just out of reach on the border of the pond. I must try to reach it. I spent the P.M. overlooking my plants and reading.

*Lactuca Canadensis*, L. var. *sanguinea* Torr. & Gr. = L.

Sunny slope - Open wood - <sup>*hirsuta* Muhl.</sup> (fide Asa Gray)

*Vaccinium Pennsylvanicum*, Lam.

Open wood - 1 ft high. This blueberry was growing in a small clump with the typical form and the form with darker leaves and black berries mentioned by Emerson, Vol. II - p. 457, of his "Trees and Shrubs of Mass." The berries are black and the leaves glaucous beneath and very different in color above from the typical form. From the color, see the specimen -

(I find a spec. like this at the Gray Herbarium, labelled "New Brunswick, Red. Jas Fowler" with Dr. Asa Gray's Stamp "Syn. Flo. N. Amer. on it. 10. W. Paper. 8-1884.")



— Shelburne, N.H. July 30 —

This A.M. I took a stroll with Wm Brewster into the woods toward Cabot where I found some new plants. We bathed in the river before supper.

*Viola rotundifolia*, Mx.

Shady pine wood - among the pine needles. I could only find this Violet in this one place. It is where I have always found the *Moneses uniflora*. The leaves, unfortunately, were badly eaten by some insect, but the plants were in good fruit.

*Equisetum Scirpoides*, Mx.

Abundant in wet soil, in deep woods by a brook.

*Cinna arundinacea*, L., var. *pendula*, Gray.

Deep, damp wood. I saw but little of it.

*Habenaria psycodes*, Gray, }  
*Veratrum viride*, Ait, }

Open field - low ground.



— 1884 —

— Shelburne, N. H. July 31 —

This A.M. R. Hayward & I took a walk along the road as far as Gates.

Bathed in the river in the P.M.

*Carex scabrata*, Schw.

I gathered about a dozen specimens of this sedge in wet sandy soil by Mill Brook, a little below the bridge at the same locality as those gathered July 11, 1883.

*Panicum dichotomum*, L.

Growing with the *Carex scabrata* above.

— Shelburne, N. H. Aug 1 —

This A.M. a small party of us went up Mt. Babot. The view was very fine.

We reached home late for dinner.

Spent the P.M. in my room.

*Viola rotundifolia*, Mx.

Growing in great numbers in cold damp woods on the way to Babot, on the level stretch before the last rise. The ground in places was carpeted with this violet whose fruit was always hidden under the dead leaves.

*Pteris Dryopteris*, Fré } Cool wood.

*Alnus viridis*, Mx. } Top of Mt. Babot.



— 1884 —

— Shelburne N.H. Aug. 2 —

This A.M. Dr. W.G. Farlow and his assistant Mr. Jacobs, who arrived yesterday, Prof. Robbins & A.P. Briggs & myself walked up to Bowls & Pitches searching mainly for Foodstuffs. We found a great many, some of them quite new to Dr. Farlow. We got back in time for dinner.

*Arnica mollis*, Hook. (Fide Lisa Gray)

Dr. Farlow found a clump of this growing in the rocks on Mill Brook. We gathered some half dozen specimens. It is quite out of its usual habitat.

*Botrychium matricariaefolium*, A. Br. (Fide E.L. Drayton)

We found some of this beautiful little fern, 3 specimens in all, growing in wet moss by a small brook, near where it empties into Mill Brook below Bowls & Pitches.

— Shelburne, N.H. Aug. 3 —

A clear, warm day. Went to church this A.M. at the little school-house.

Read during the P.M.

*Glyceria elongata*, Trin.

Wet ground, border of a brook. Same locality as those gathered July 25<sup>th</sup> last. Vide Note under July 25<sup>th</sup> last.



— 1884 —

— Shelburne, Vt. Aug 4. —

This A.M. Dr. Farlow, Mr. Jacobs  
G. L. Briggs & I went up Mt. Cabot  
botanizing in the way. It was very  
warm but we were repaid by a fine  
view from the top. In the P.M.,  
walked with A. P. Chadbourn toward  
Rocks & Pitches.

*Habenaria orbiculata* Torr.

I found a beautiful specimen of this  
plant in the damp wood at the foot of  
Mt. Cabot. Scape 1 ft. - 10 in. high. Leaves  
7 in. wide. 6 1/2 in. long.

*Botrychium lunarioides*, Swartz. (*B. ternatum* Swartz.  
*var. lunarioides* Schreb.  
acc. to Dave post.)

Deep woods, foot of Mt. Cabot. (Side of Mt. Farlow)

*Salix cordata*, Muhl.

By Mill Brook ~

*Cleocharis obtusa*, Schultes.

Muddy ground ~

— Shelburne, Vt. Aug. 5 —

Stayed about the house to-day and played  
Tennis ~

*Potentilla tridentata*, Grit.

Hillside, near The house.



1884

Shelburne, N.H. Aug. 6

A beautiful, clear day. This A.M. I played tennis and went over the hills. In the P.M. most of the household went on an excursion to Berlin Falls. Dr. Farlow and myself with two or three others stopped at the Alpine Cascade in Durham and visited the Falls and botanized. It is a very beautiful fall of water over the mossy rocks. We were very successful, collecting some rare ferns. We then proceeded to Berlin Falls, where we turned on coming home by moon light, reaching the house at 10.30 P.M.

*Aspidium fragrans*, Swartz.

We found a considerable amount of this fern growing in the clefts of the rocks by the Alpine Cascade, Durham. Dr. Farlow found it also at Berlin Falls, Berlin.

*Aspidium marginale*, Swartz.

*Woodsia glabella*, R. Brown.

*Cystopteris fragilis*, Bernh.

*Trisetum subspicatum*, Beauv. var. *molle*, Gray.

Rocks. Alpine Cascade, Durham, N.H.

*Woodsia glabella*, R. Brown.

Rocks. Alpine Cascade, Durham, N.H. One clump of 7 fronds.

*Lilium tuculire*, Don.

(S. & W. D.) Rocks. Alpine Cascade, Durham, N.H.

*Peana arundinacea*, L. var. *pendula*, Gray.

Damp shade, Alpine Cascade, Durham, N.H.

*Taccinium uliginosum*, L. Same locality as specimens gathered July 20-1884.

Note: Not



~ 1934 ~

~ Middlemore, N.H. Aug. 7 ~

I had no collecting today.

~ Middlemore, N.H. Aug. 7 ~

A rather warm morning for a very cool afternoon. In afternoon I went over to the Kumboka and made a walk into the woods towards Chubert. The morning the day is mostly the weather was clear as the day. The elevation of the woods and the woods, and very much of the same. Xanthoxylum, etc.

I collected about 30 specimens of this year in the Kumboka woods. I found it to be late for it. I found that it was gone by, to say the least. It was in good condition here July 25 - the collection surprises, etc.

I gathered a few more of the same, but in damp woods, in the same spot as that gathered last July 30. *Callorhiza multiflora*, Nutt.

A fine large specimen in fruit in damp woods, by a brook -



— Shelburne, N. H. Aug. 14 —

I was summoned home unexpectedly on the 17<sup>th</sup> of the month to my Father's where I staid till this morning. I did no botanizing putting but one plant into the press —  
*Chenopodium hybridum*, L.

Gravel sidewalk Brewster Pl.  
 Cambridge, Mass. Aug. 10-1884.

The new volume of Dr. Gray's *Synoptical Flora* is just out and I have secured a copy. I returned to Shelburne this P.M.

— Shelburne, N. H. Aug. 15 —

A warm day, with a thunder-storm in the P.M. This A.M. I went over to Dr. Foster's. He gave me a number of alpine plants collected on a recent visit to Mt. Wash. This P.M. we drove about 1 m. beyond Lead Mine Bridge on the N.H. side of the river. I collected a few plants.  
*Asplenium felix-foemina*, Bernh.

Abundant by a brook.

*Galeopsis tetralix*, L.

Abundant in open waste ground. In fruit.  
*Impatiens fulva*, Nutt.

Abundant by a brook. In fruit.



— 1884 —

— Shelburne, N. H. Aug. 16 —

This A.M. I did some botanizing  
with Mr. <sup>C.R.</sup> Lamb in Wheeler's Bog.  
We bathed in the river this P.M. Hot.

*Kalmia glauca*, Ait.

*Vaccinium Oxycoccus*, L.

*Eleocharis palustris*, R. Br.

*Kalmia angustifolia*, L.

*Rhus arbutifolia*, L., var. *melanocarpa*, M.

*Viburnum cassinoides*, L.

*Calla palustris*, L.

*Scheuchzeria palustris*, L.

*Sium lineare*, Michx.

Wheeler's Bog. All in fruit.

— Shelburne, N. H. Aug 17 —

A piercing hot day. Went to school  
this A.M. I laid at home in the P.M.  
Dr. Faxon gave me a number of plants  
from Mr. Washington



1884

— Shelburne N.H. Aug. 18 —

A fiercely hot day. This A.M. Dr. Farlow and I went into a swamp at the foot of Mt. Cabot and botanized. I staid at home this P.M. After Tea took a stroll back of the Rubble.  
*Thalictrum cordifolium*, L.

Fruiting specimen with seeds gone. Deep swampy wood.

*Mitella nuda*, L.

Fruiting specimens. Deep swampy wood.

Not very common.

*Leersia oryzoides*, Swartz.

Wet ground - Roadside.

*Equisetum limosum*, L. (Fide W. S. Farlow)

Left near by the creek, behind the Rubble, near the River.



— 1884 —

— Shelburne N.H. Aug. 17 - 1884 —

A fiercely hot day. This A.M. I staid at home and labelled plants. This P.M. I went with Dr. Farlow Mr. Jacobs and Geo. L. Briggs to the foot of Mt. Crag where we had some fine botanizing -

*Adiantum pedatum*, L.  
*Asplenium thelypteroides*, Michx.  
*Botrychium Virginicum*, Swartz.  
*Caulophyllum thalictroides*, Michx.  
*Asarum canadense*, Gray. Found 4 plants.  
*Cicuta Lutea*, L.  
*Microstylis ophioglossoides*, Nutt.  
*Epiphegus Virginiana*, Bartr.  
*Trillium erectum*, L.

Deep wood at the foot of Crag.

— Shelburne, N.H. Aug. 20 —

A fiercely hot day. Labelled plants this A.M. and bathed in the river. Went up Mill Brook this P.M. with Dr. Farlow & Geo. L. Briggs.  
*Solidago rugosa*, Mill. (Fide Asa Gray)  
*Hamamelis Virginiana*, L.  
 Rocks, soil - Bowles & Ritches, Mill Brook.  
*Ulex barbata* (L.) K. (Fide W.B. Farlow)  
 Growing on a dead tree near Mill Brook.



1874

Hubert, 1 to Aug. 21

A fine day, the sun & I spent the day  
about the house, writing letters in the  
A.M. and sitting under the trees in the P.M.  
The wind in the trees before tea.

Hubert, 1 to Aug. 22

The morning passed like the 21st. A thunder-  
storm cooled the air about 9.30. I spent  
the morning in Dr. Farlow's room. In the  
P.M. Dr. Farlow Mr. Jacobs, R. Hayward & I  
went up Ingalls Brook some two miles to  
the first fork. There were a great many  
plants of *Heptacaria* & Mosses in the river bed.  
The banks were ~~were~~ very thick. Returned home to supper.

- Urtica dioica*, L. (See N. S. Farlow)
- Urtica dioica*, L.
- Phlox*, Dry, pt. in tree
- Sticta pulmonaria* (L.) <sup>Ad.</sup> a seed (See N. S. Farlow)
- Polypodium mucronatum*, L. (See N. S. Farlow)
- Near Ingalls Brook
- Calla palustris*, L.
- Wheeler's Bog.
- Trillium erythrocarpum*, Torr.
- Fruit - erect, leaves distinctly petioled.
- Deep wood.



1884

— 1884 —  
 — 1884 —

A beautiful day, rather warm walk-  
 ing in the morning, but cool in the P.M.

A party of us, consisting of Mr. Taylor, Mr.  
 Jones, A. P. Chatburne, Geo L. Briggs &  
 myself, started at 11:15 A.M. and walked  
 to Mascot Mine, which is on the side of  
 Mr. Hayes in Gorham. We kept on the  
 south side of the river and went through  
 some very beautiful woods. We reached  
 the pond near the mine and camped. A party  
 from Phillips' met us at the mine and I  
 found in the morning with them. We were well  
 back. We walked home at 7 P.M. -

*Brachyelytrum cristatum*, Beauv.

Wet ground by a brook in woods - Gorham.

*Polidago sanguinea*, Muhl.

Abundant in the woods on the North side of  
 the Androscoggin River between Lead Mine Bridge & Gorham.

My specimens were gathered in Gorham.

*Larix Americana* Michx. (Cones). }

*Rhynchospora alba*, Vahl. }

Border of the pond at Mascot Mine, Gorham.

*Notomastix Claytonii*, Tuckerman (Fide Thos. Moring).

Pond at Mascot Mine, Gorham.



— 1884 —

— Shelburne N. H. Aug. 24 —

A clear, cold, windy day. I wore my overcoat to church this morning. Spent most of the P.M. getting ready, some for walking to plant to send to P. R. Barnes, Le Fay, etc. etc. *Quercus rubra*, L.

Fruiting specs from the hillside, back of the house.

Shelburne, N. H. Aug. 25

A cool day, cloudy in the P.M. I botanized this A.M. at the creek in front of the house. In the P.M. I went up Mt. Pisgah with Mr. Briggs and John Briggs. The top of the mountain was very high and rocky. *Solidago humilis* Pursh. (Fide Asa Gray)

*Sagittaria gracilis*, Pursh. (Fide S. Watson)

" *graminea*, Michx.

In water - Creek.

*Brassica alba*, Gray.

Cultivated.

*Botrychium lunarioides*, Swartz. (Fide W. S. Taylor)

Open grassy field.

*Solidago serotina*, Ait. of the Syn. Flora,

*S. gigantea* Ait. of the Manual.

Border of the Creek.

(Fide Asa Gray).

(over)



*Rhexoma purpurivides*, V.  
Dry, open field.

1/2 1/2 bag in 1/2 p. 1/2 in, the 1/2  
1/2 1/2 bag in 1/2 p. 1/2 in, the 1/2

*Aspidium Lacinatum* Willd.

Cold, damp wood - Mr. Gabor.

*Pharus viridis*, Dc.

*Solidago humilis*, Pursh. (Fide Asa Gray) <sup>Sept 2/1884.</sup>

"arguta, Aut. of the Syn Flo. N.A. =

arguta, Aut. of the Syn Flo. N.A. =  
"Five" <sup>the</sup> <sup>As Gray</sup> Muhlenbergii Torr. & Gr. of the Manual.  
(Sept. 2-1884)

On a near the Summit of Mt. Cabot in  
rather open ground.

I was, May, with a little sunshine  
in the P.M. it rained in the evening.  
I spent the morning in writing & some  
at 10 A.M. I left home for the  
Mt. Adams & Madison. The result of a  
yesterday's tramp. In the P.M. I played  
some cards and got ready for the morning's  
hunting. I spent, which came off with great  
success in the evening.



— 1884 —

— Helburne, N.H. Aug. 27 —

A very beautiful clear, cool day.  
 I spent most of the A.M. and till 3 P.M.  
 doing my plantations. Then I took a walk  
 with A.P. Whitbourne to the Pine of Gray  
 to the spot we visited last Aug. 9. It  
 is a damp, cool, moist at the foot of a large  
 very steep rocks and lies a very interesting  
 place.

*Ouzopsis multicaulis*, Muhl. }  
*Asplenium*, L. }  
*Asplenium*, L. }  
*Asplenium*, L. }

*Asplenium marginell*, Swartz.

Rich soil, among rocks - damp wood.

*Paulophyllum thalictroides*, Michx. }

*Osmorrhiza brevistylis*, DC. }

Fruit. Deep, damp wood.

*Asplenium serpentaria*, Rost. & Schmidt. 11 flos. 11

Roadside —

*Wahlenbergia Canadensis*, L. flos. 11

Deep, damp wood, foot of Crag.



1874

Hillbome, N. H. Aug. 27

A clear, cool day. This A.M. I  
 botanized a little with Dr. Farrow &  
 Mr. Jacobs in Sand River, N. H. and  
 at the foot of Cabot. In the P.M. a  
 party of us went to the foot of Crag  
 where we get the Maiden-hair Fern.

*Bicleus cernua*, L.*Cicuta alpina*, L.*Coptis trifolia*, Salisb. Fruit only*Oxalis acetosella*, L.

Wet ground - Woods

*Oryzopsis melanocephala*, Muhl.*Aralia quinquefolia*, Gray. Fruit only

Rocky woods, foot of Crag.

*Epiphegus Virginiana*, Bosc.

Beech Wood.

Last month, I received a very interesting col-  
 lection of plants from the Rev. Mr. Morong. I  
 labelled all the plants and sent them to  
 Miss E. F. Wiggins requesting her to ask Mr.  
 Morong to sign them. To-day I have re-  
 ceived a letter from Miss Wiggins with  
 all the labels signed as requested.

Vide note July 4 -



— 1884 —

— Shelburne, N. H. Aug. 29 —

A rainy day. This a.m. I went down  
to Wheeler's Bog with A. P. Chadbourne,  
where we did a little botanizing. Spent the  
P.M. in the house, except a drive in the  
rain to the Post Office.

*Potamogeton Oakesianus* Robbins. (Fide Thos. Munro)

*Juncus Canadensis*, J. Gay, var. *coarctatus*, Engelm.

*Sarracenia purpurea*, L.

*Pyrus arbutifolia*, L. var. *erythrocarpa*, Gray.

(Wheeler's Bog ~

*Sambucus Canadensis* L.

*Leckea minor* L. var. *stricta* <sup>Leppert</sup> (Fide Rev. E. J. Hall)

Roadside ~



— 1884 —

Shelburne, N. H. Aug. 30

A pleasant day, rather warm. This A.M. I botanized a little in the Creek near the house. This P.M. I went up Mr. Baber, with Robbie Greenough to examine the *Solidago* that covers the Summit —

*Sagittaria graminea*, Michx.  
In water, muddy bottom.

*Brassica alba*, Gray.

Fruit, Cultivated.

*Solidago squarrosa*, Muhl.

Mr. Baber, woods.

*Solidago humilis*, Pursh. (Hid. Lisa Gray, Sept. 2 1884)

This Golden Rod grows in great profusion on the Summit of Baber and on the rocky sides. I examined a good many specimens and in every case the rays were 8-10 —



— 1884 —

— Shelburne, N.H. Aug. 31. —

A pleasant day, slight shower in the P.M. Went to church this A.M. in the A.M. a party of us drove to Lerbody Farm and then walked in to the woods to the cascade on the side of Bald Cap. We stepped into a hornet's nest in the woods and a number of us got badly stung. I was stung on the fore finger of the left hand. It has been quite painful.

*Ranunculus clandestinus*, L.

Roadside - Past flowering, but showing the appressed branches. I only took about one half the plant.

*Batrachium* *inermis*, L. *inermis*, L.

" Moist shade, ground, on the path the cascade on Bald Cap.



1884

~ Cambridge, Mass. Sept. 1 ~

The City Hotel & Burne This a.m.  
and reached Boston at 6 P.M. after  
a pleasant ride in the cars. We  
came right to Brewster Pl.  
*Solidago puberula*, Nutt. (See also Gray).  
Sandy soil by the Grand Trunk  
Railway at Garment Junction, Me.  
I jumped off the train, as the cars  
stopped at this spot, to collect these  
specimens.

~ Cambridge, Mass. Sept. 2 ~

A very pleasant day. I have  
spent the day putting up plants  
and verifying others at the Botanic  
Garden.  
*Fimbristylis capillaris*, Gray.  
Sandy sidewalk. Brewster Place -

Cambridge, Mass. Sept. 3.

A pleasant day. I visited and  
arranged plants for mounting.  
*Polygonum orientale*, L.  
Cultivated. In John Brewster's  
garden.



— 1884 —

71

— Cambridge, Mass. Sept. 4. —

A very hot day. Poisoned and arranged plants. Louis Drake came this evening and has begun mounting.  
*Chenopodium hybridum*, L.  
Lidewalk - Brewster Pl. in fruit

— Cambridge, Mass. Sept. 5 —

A very hot day. Poisoned and arranged plants for mounting. Louis Drake came this evening and worked.  
*Rumex crispus*, L.  
Fruit - Waste ground. Brewster Place.

— Cambridge, Mass. Sept. 6 —

A warm day. Poisoned plants in the A.M. Put plants into the P.M. Louis Drake mounted this evening.

Cambridge Mass. Sept. 7.

A pleasant day, clear and cool. Poisoned plants this A.M. Put plants into the mounting box in the P.M. Called on L. H. Bailey, Jr. in the evening. —



— 1884 —

— Cambridge, Mass. Sept. 8 —

A. very hot day. This A.M. I went to the Botanic Garden and verified some plants with Mr. Walton's assistance. The rest of the day I worked over my plants.

*Leontodon autumnale* L.

Fruiting spec. on Father's grounds.

*Sisymbrium officinale*, Scop.

Fruit. Brewster Pl. W. Brewster's yard.

*Bidens connata*, Muhl.

Wet ground. Open field.

*Chenopodium album*, L.

Sidewalk. Brewster Pl.

— Cambridge, Mass. Sept. 9 —

Terribly hot to-day. Probably the hottest day of the season. Worked on my plants to-day. Went down to Brock's and am arranging to have some tin cans made for my plants. Louis came this evening.

*Polygonum orientale*, L.

Cultivated. Fruit. J. Brewster's yard.



— 1884 —

Cambridge: Mass. Sept. 10.

A very foggy day. The hottest of the  
 season. <sup>part of L. F. Ward's plants</sup> Portoned and arranged <sup>plants</sup>.  
*Panicum Crus-galli*, L. }  
*Setaria glauca*, Beauv. }  
 Fruit. Wet ground of Brewster  
 yard. The spikes of *Setaria* were taney.  
 Louis mounted tonight

Cambridge: Mass. Sept. 11.

A very hot day. Thunderstorm in  
 the P.M. Portoned a part of *Setaria*.  
 F. Ward's plants. He has sent me  
 about 447 species. Louis mounted  
 this evening.

— Cambridge, Mass. Sept. 12 —

A beautiful cool day. Portoned part  
 of L. F. Ward's plants this A.M. and  
 went to the Botanic Garden and ver-  
 ified some *Solidagos*. Portoned again  
 this P.M. and also went to the Gardens. No  
 mounting done this evening.



1884

Cambridge, Mass., Sept. 13 ~

A very cool day, bright and clear.  
 This A.M. I poisoned L.F. Wards plants.  
 This P.M. H. Purdie came out of town  
 for me and we went down to  
 Oak Island, Revere, where we spent  
 an hour and a half botanizing. It  
 is a very singular spot. In a descrip-  
 tion of which see "Bulletin of the Essex  
 Institute Vol. XIV. pp. 141 - 152" - We  
 reached home by 7 o'clock ~ <sup>Louis mounted plants</sup> This evening.

- Arabis Canadensis*, L. (fruit).  
*Rosa lucida*, Ehrhart. (fruit)  
*Sagittaria Marilandica*, L. (fruit).  
*Sagittaria Arifolia*, L. (fr. & flower)  
*Triostema perfoliatum*, L. (fruit)  
*Aster Linifolius*, L. (flower)  
*Solidago Sempervirens*, L. (flower) 3 ft. high.  
*Achillea Eupatoria*, L. (fruit) { 1 ft. 3 in high. }  
*Achillea Canadensis*, L. (fruit & a few flowers).  
*Lophanthus Scrophulariifolius*, Benth. (fruit).  
*Polygonum Hydropiper*, L. { 8 ft. 7 in high }  
*Brizopyrum spicatum*, Hook.  
*Elymus striatus*, Willd.  
*Gymnostichum Hystrix*, Schreb  
*Panicum virgatum*, L.

Oak Island, Revere, Mass.



1884

— Cambridge, Mass. Sept. 14 —

A very cool day, almost cold. Spent most of the day working at my plants. Did no poisoning to-day.

Cambridge, Mass. Sept. 15 —

A very cool day. This A.M. I finished poisoning L. F. Ward's collection. Went to the Gardens and verified Ward's *Genus Eupatorium*. This P.M. I put Mrs. Moore's coll. into the mounting box. Also made mounted plants this evening —



— 1884 —

— Cambridge Mass Sept. 16 —

A rather warm day, with a very strong breeze blowing from the land. I spent this A.M. with my plants. This P.M. Mungie & I went to Oak Isl. We went down to Revere Beach and also walked round the Isl. and roamed through it. I found a number of interesting plants. We reached home by 6 P.M. Louis Drake mounted this evening.

*Lycium hyssopifolia*, L.

*Eupatorium purpureum*, L.

*Aster Novi-Belgii*, L. (See Asa Gray).

" *penifolius*, L. Marsh between Revere Beach & Oak Isl.

*Artemisia caudata*, Michx. Sand - Revere beach.

*Scrophularia nodosa*, L.

*Leonurus Cardiaea*, L.

*Polygonum articulatum*, L. Sand. Revere Beach.

" *aviculare*, L. (See Ferens Watson.)

*Scirpus pungens*, Vahl.

*Calamagrostis arenaria*, Roth. Sand. Revere Beach.

With the ~~these~~ exceptions mentioned

These were all gathered at Oak Isl. Revere. Mass.



— 1884 —

~ Cambridge, Mass. Sept. 17. ~

A warm day. Worked on my plants in the A.M. Lunch at W. Brewster's with Mr. Howard Saunders, the British ornithologist. J. H. Allen & father. Went to the Gardens in the latter part of the P.M. to verify a couple of plants. Louis mounted this evening.

~ Cambridge, Mass. Sept. 18. ~

A cloudy day, with rain in the evening. This A.M. I went to Ashland and spent the P.M. with Rev. Thos. Morony, who gave me a large number of plants. I took dinner and tea with Miss Wiggins. Reached home by 8-30 P.M.

~ Cambridge, Mass. Sept. 19-20-21-22-23 ~

During these days I have been busy with my plants getting them into my Herb. as fast as possible. Louis mounted on the 19<sup>th</sup> 20<sup>th</sup> 22<sup>nd</sup> <sup>my</sup>. I verified Ward's Genus *Helianthus* at the Gray Herb. this P.M. <sup>Sept. 23<sup>rd</sup></sup>. As I was returning home from the Gardens I passed through the old field between Concord Ave.



1884

and Buckingham St. and by an old  
dirt-heap I found a number of  
interesting plants growing in confusion.

*Echium vulgare*, L.

*Nicotiana physaloides*, Gaertn.

*Datura stramonium*, L.

" *inermis*, Jacq.

} Sept. 23.

Growing on a old dirt-heap in the  
field between Concord Ave & Buckingham  
St.

— Cambridge Mass. Sept. 24 —

Went into School this A.M.  
This P.M. I went to the Gardens  
and on my return I visited the  
dirt-heap I yesterday where I  
found still more plants.

*Echinopspermum Lappula*, Lohm.

*Physalis perfoliata*, L.

" *viscosa*, L. of the Manual

*Datura Tatula*, L.

} (see 24. Sept. 11)

Same locality as those of yesterday.

Louis mounted this evening



— 1884 —

— Cambridge, Mass. Sept. 25 —

Went into School This A.M. This P.M. went to The Gardens for a short time.

*Physalis Philadelphia* Lam.

Fruiting Spec. Same locality as those gathered yesterday.

— Cambridge, Mass. Sept. 26 —

Went into School This A.M. This P.M. I called on Miss Needham and saw her wild flowers. I also went to the Gardens where Dr. Gray verified Ward's *Aster* & *Solidago*.

*Melilotropium Europaeum* L.

Dist. Keep. Same locality as those gathered Sept. 23-1884

*Melilotus alba* Lam.

From Miss Needham's wild flower garden.

*Polygonum Pennsylvanicum*, L.

Grows in Miss Needham's garden. Moist ground.

Louis mounted this evening



— 1884 —

— Cambridge, Mass. Sept. 28 —

I attended school on the 27 & 28<sup>th</sup>.  
mounted the 27 & 29<sup>th</sup>.

— Cambridge Mass. Sept. 30 —

Returning home from school 1<sup>st</sup> P.M. I visited the dump between Concord Ave & Buckingham St. and found more plants. Louis mounted this evening.

*Polygonum erectum* L. 3 ft. wide, 1 1/2-2 ft. high.  
*Amaranthus albus* L. 3 ft. — 2 ft. —  
*Lepidium virginicum* L. (Monte of the plant found  
off from a variety spec.)  
*Nasturtium amphibium*, R. Br. var. *insulare* Rehb. (Fide L. H. Bailey)

Dirt-heap between Concord Ave. & Buckingham St.

— Cambridge Mass. Oct. 1 —

Visited the dump, or dirt-heap this P.M. between Buckingham St. & Concord Ave.

No mounting this evening.

*Phalaris Canariensis*, L. }  
*Bidens frondosa*, L. }  
*Centrosea extensaefolia*, L. }

Fire-dirt-heap between Buckingham St. & Concord Ave.



1884

Cambridge, Mass. Oct. 2

I visited The Dump this P.M. and  
brought home a few plants Louis mounted  
this evening

*Polygonum aviculare*, L.  
*Datura inermis*, Jacq.  
*Miscanthus physaloides*, Gaertn. }

Fruit - Waste ground between Buckingham  
St. & Concord Ave.

*Knopodium glaucum*, L.

Charles St. Boston - Sidewalk, around a  
tree by the Public Garden - In Fruit.

Cambridge, Mass. Oct. 3

I visited The Dump this P.M. Louis  
mounted this evening.

*Sisyrinchium nodosa*, L.

I found a single specimen of this plant  
on the dirt-heap between Buckingham St. & Concord Ave.  
It was 3 ft. high, and was just coming into flower -  
*Brassica nigra*, Koch.

Dirt-heap - Same locality as the *S. nodosa* above.



— 1884 —

— Cambridge, Mass. Oct. 4 —

I went to Ashland to-day with Maggie and spent the P.M. with the Rev. Thos. Moring, going over his duplicates of which he has an immense number. He keeps a number of them giving me what I want and burns up the rest. I got a great many very desirable plants. We took dinner and tea at Mrs E. F. Wiggins and reached home at 8.30 P.M. I was to dine with Mr. Moring but owing to a delay in the train I reached Ashland too late. No mounting this evening.

— Cambridge, Mass. Oct. 5 —

This P.M. Rollin Lawrence & I took a walk to Tufts College. The view was beautiful. I gathered a few plants on the way.

|                                    |                             |
|------------------------------------|-----------------------------|
| <i>Trichostema dichotomum</i> , L. | } Open field<br>Somerville. |
| <i>Spiraea tomentosa</i> , L.      |                             |
| <i>Centaurea nigra</i> , L.        |                             |

Roadside, Broadway near Tufts College.

|                                 |
|---------------------------------|
| <i>Aster linearifolius</i> , L. |
|---------------------------------|

Fruiting spec. - Open field - Somerville.

*Solanum visnambriifolium*, Lam. (Fide Asa Gray)

*Heliotropium Indicum*, L. (Fide Asa Gray)

Dun-heap between Buckingham St. & Concord Ave.  
Cambridge -



1884

~ Cambridge Mass. Oct 6 ~

I verified some plants to-day at the Gray Herb. and did some work for Lloyd Louis Drake mounted this evening.

~ Cambridge Mass. Oct. 7 ~

This P.M. I verified at the Gray Herb a few of the plants brought me by R. N. L. from Ill. & Wis. No mounting this evening.

|                                     |                                                             |
|-------------------------------------|-------------------------------------------------------------|
| <i>Solenum visyrbiiifolium</i> Lem. | } } 7 - the same place<br>11 - spec. 8 at<br>1 spec. 309 41 |
| <i>Datura Tatula</i> L.             |                                                             |
| <i>Stramonium</i> L.                |                                                             |

Dirt-heap between Buckingham St. & Concord Ave

~ Cambridge Mass. Oct 8 ~

I verified some of R. N. L. Louchie's plants at the Gray Herb this P.M. Louis Drake mounted this evening.

*Ricandra physaloides*, Gaertn.  
Flowers. Dirt-heap - same place as yesterday



1884

~ Cambridge Mass. Oct. 9 ~

This P.M. I walked home from  
 Boston over the Mill Dam and then on  
 the R.R. track of the Boston & Albany Road  
 to Allston and over Brighton Bridge  
 with J. J. Greenough. Louis mounted <sup>not</sup> this evening  
 3 ea Mays L.  
 By the R.R. track Brighton

~ Cambridge Mass. Oct. 10 ~

Put more plants in the box this P.M.  
 Louis mounted this evening -

~ Cambridge Mass. Oct. 11 ~

This A.M. I went to the Dump and  
 got me a two plants. The first had  
 nipped the Datura and no more specimens  
 can be got. At 10 A.M. I went to Ashland  
 and spent the day with Rev. Mr. Morong.  
 I dined with him and we spent the P.M.  
 going over his duplicates. I got a good  
 many nice plants. Took tea at Mrs. E. F. Diggins.  
 Libanon (Gvicene, Gaertn.) }  
 Malva borealis, Wallman. }  
 Fire heap between Canal Ave. & Bunting St.

Louis mounted this evening.



1884

85

Cambridge Mass. Oct. 12

Spent the day at home, with my plants most of the time. Now down to see L. H. Bailey for the P.M.

Cambridge, Mass. Oct. 13 -

This P.M. did some work for Lloyd at the Gardens.

*Asclepias strianum*, L. }  
" *Satula*, L. }

Rubbish-heap between Concord Ave. and Buckingham St. Ficus (Ficus & Scaevola),  
Louis mowed the evening.

Cambridge Mass. Oct. 14-15-16

Have done but little with my plants for the past 3 days. Louis mowed this evening the 16<sup>th</sup>.

Cambridge Mass. Oct. 17-18

Have been busy verifying T. Mowbray's plants given me Oct 4 & 11. at home and at the Gray Herbar. Also have done some work for Lloyd - so much. In the last few days



— 1884 —

Cambridge Mass. Oct. 19 —

Worked on Morong's plants, verifying them.  
*Richium Intybus* L.  
 Fruit Dump a Rubbish heap between Concord Ave.  
 and Buckingham St.

Cambridge Mass. Oct 20 — 3 —

During this week I have finished verifying  
 Rev. Thos. Morong's plants and have labelled  
 12 of them.

— Cambridge Mass. Oct. 24 —

This P.M. I drove home from Boston  
 over the Mill Dam. I have had two tin  
 cans made for my plants like Wm Brewster's.  
 They do admirably. I have ordered 3 more.  
*Solidago sempervirens* L.

A plant in full fruit by Chas. River  
 off the Mill Dam - Boston -



1884  
 Some two dozen species of plants I have collected during the past month. At noon I went to the Botanic Garden and met Rev. Thos. Morong and L. H. Bailey, Jr. who came back with me to dinner. We had a very nice time together and after dinner we spent some time in our herbarium where my plants were very much dried in my tin cans. They both left by the middle of the P.M. Mr. Morong wants me to give him my desiderata in Potamogetons and he will give them to me as he can. This evening, I have been labeling Mr. Morong's plants. There has been no mounting since Oct. 16<sup>th</sup>.

— Cambridge, Mass. Oct. 26 —

This P.M. R. N. Larrabee & I walked up to Fresh Pond.

*Sclerpias incarnata* L. var. *pulchra*, Des.

*is versicolor*, L.

*Helianthus scaberrimus*, L.

*Helianthus*

*Helianthus*

All in fruit. Near Fresh Pond. Cambridge, Mass.  
*Cephalanthus occidentalis*, L. Same locality as above.



— Nov. 15 - 1884 —

Since Oct. 26<sup>th</sup> I have been busy  
portioning, labelling and verifying plants  
mostly those of the Rev. Thos. Morong.  
His plants are now in the mounting box  
ready to be mounted. I am obliged to  
enlarge my Herbarium and I have had  
5 tin cans made at Brock's, much after  
the fashion of those used by Com<sup>r</sup> Brewster  
for his birds. I think they will prove  
a great success.

*Croton tinctoria* L.

Root & seeds. Open field near Broadway.  
Same locality as the spears gathered last July 17-

— Nov. 21<sup>st</sup> - 1884 —

Since Nov 15<sup>th</sup>, I have been working  
on my plants verifying and getting them  
into the mounting box. Louis mounted on  
the 17<sup>th</sup> & 19<sup>th</sup>.







*Faint handwritten notes at the top of the page, possibly describing the source or context of the data.*

|              |      |   |     |
|--------------|------|---|-----|
| Jan 7 - 27   | 75   | - | 6   |
| Mar. 27 - 28 | 51   | - | 7   |
| Apr. 28      | 26   | - | 0   |
| Total        | 1745 | - | 110 |

*Synopsis of W. Dean's mounting for the Spring*

*1835*

*Newsheet - Photographs Herb.*

|         |    |    |
|---------|----|----|
| Mar. 29 | 1  | 0  |
| Apr     | 37 | 3  |
| May 11  | 18 | 7  |
| " 27    | 1  | 3  |
| Total   | 57 | 13 |

Grand Total - 1802 - 123 -



By request of W. Allen is mounting  
from June 1885 to present.

New Sheets - Sheets from Herbarium  
909 - 124

I mounted no more than 93 sheets in one day  
My work was from June 25 - Sept. 16



A list of plants collected in the  
 Dec. 1874 by Wm. L. Garrison, Jr.  
 at the request of the  
 collected in the same place as the  
 list of plants collected by the same person.

Rollin N. Larrabee, Miss Rosalind Larrabee  
 Miss Caroline Larrabee & Miss E. Wood  
 in June, July, Aug. & Sept. 1874.

- Arabis laevigata*, Gle.  
*Opuntia humum Canadense*, Mx.  
*Trinia monticola*, L.  
*Thymus pungens*, L.  
*Asplenium agrarium*, L.  
*Asplenium pauciflorum*, L., var. *myrtifolium*, Gray.  
*Asplenium tuberosum*, Michx.  
*Asplenium robustum*, L.  
*Asplenium Jakeliana* Robbins.  
*Asplenium intermedium*, Michx. & L.  
*Xiatis scariosa*, Willd.  
*Eupatorium ageratoides*, L.  
*Asplenium myrtifolium*, Gray.  
*Asplenium latifolium*, L.  
*Asplenium rigidum*, L.  
*Asplenium cerebinthinaceum*, Jacq.  
*Coleopsis lanceolata*, L.  
*Asplenium implexicaule*, Nutt.  
*Asplenium Canadense*, Mx.  
*Asplenium alba*, L.  
*Lobelia pyrrhulitica*, L.  
*Asplenium latifolium*, L.  
*Asplenium latifolium*, L.



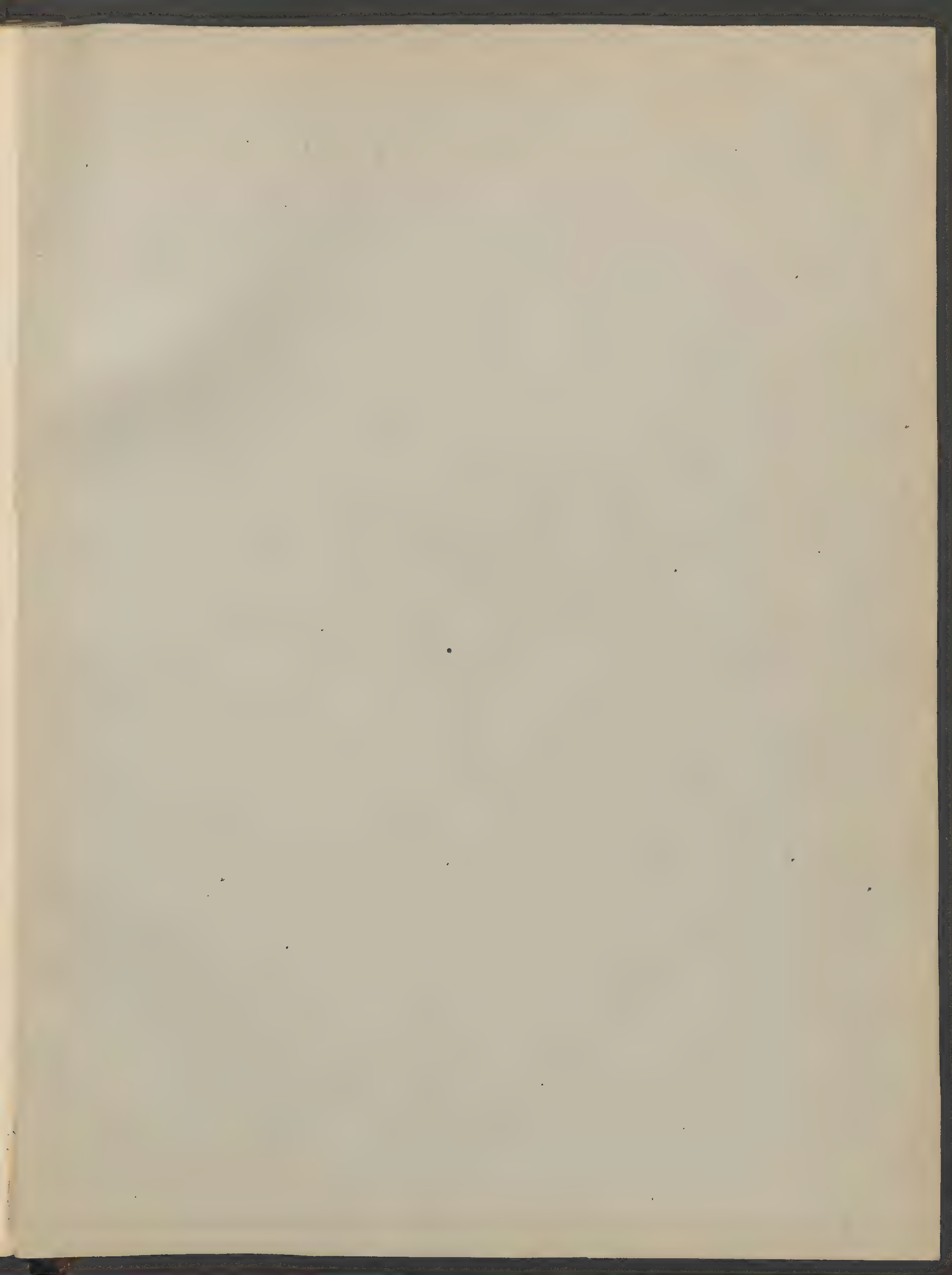




I moved from Mrs. Minot's  
to 27 Brewster St. Aug. 21, 1883.

---



















removed from Journal

Aug. 7, 1882 to Jan. 16, 1885



WALTER DEANE  
29 BREWSTER STREET  
CAMBRIDGE  
MASSACHUSETTS

*Apr 29 / 30*